"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

ABRAMOV, Mikhail Gukasovich; SHTUTSER, N.V., red.; KUZ'MINA, N.S., tekhn. red.

[Clinical cytology]Klinicheskaia tsitologiia. Moskva, Medgiz, 1962. 411 p. (MIRA 16:4)
(DIAGNOSIS, CYTOLOGIC)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

NEVZOROVA, Tamara Alekseyevna; SHTUTSER, N.I., red.; GOBERLAND, M.I., tekhn. red.

[Aminazine in clinical and outpatient practice] Aminazin v klinicheskoi i ambulatornoi praktike. Moskva, Medgiz, 1961. 153 p. (MIRA 16:7)
(CHLORPROMAZINE)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

NESTEROV, Vladimir Stepanovich; KOCHETOV, Anatoliy Mikhaylovich; DIKAREVA, Yelena Anatol'yevna; DIKAREVA, Yelena Anatol'yevna; SHTUTSER, N.V., red.; MATVEYEVA, M.M., tekhn. red.

[Cardiac aneurysm] Anevrizma serdtsa. Moskva, Medgiz, 1963. 193 p. (MIRA 17:1)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SMOL'YANINOV, Vadim Semenovich; SHTUTIN, N.V., red.

[Diseases of the aorta] Bolezni aorty. Moskva, Medi-tsina, 1964. 235 p. (MIRA 17:9)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

KASSIRSKIY, Iosif Abramovich; KASSIRSKIY, Genrikh Iosifovich; SHTUTSER, N.V., red.; KOKIN, N.M., tekhn. red.

[Sound symptoms in acquired heart defects] Zvukovaia simptomatika priobretennykh porokov serdtsa. 2. izd. Moskva, "Meditsina," 1964. 319 p. (MIRA 17:3)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

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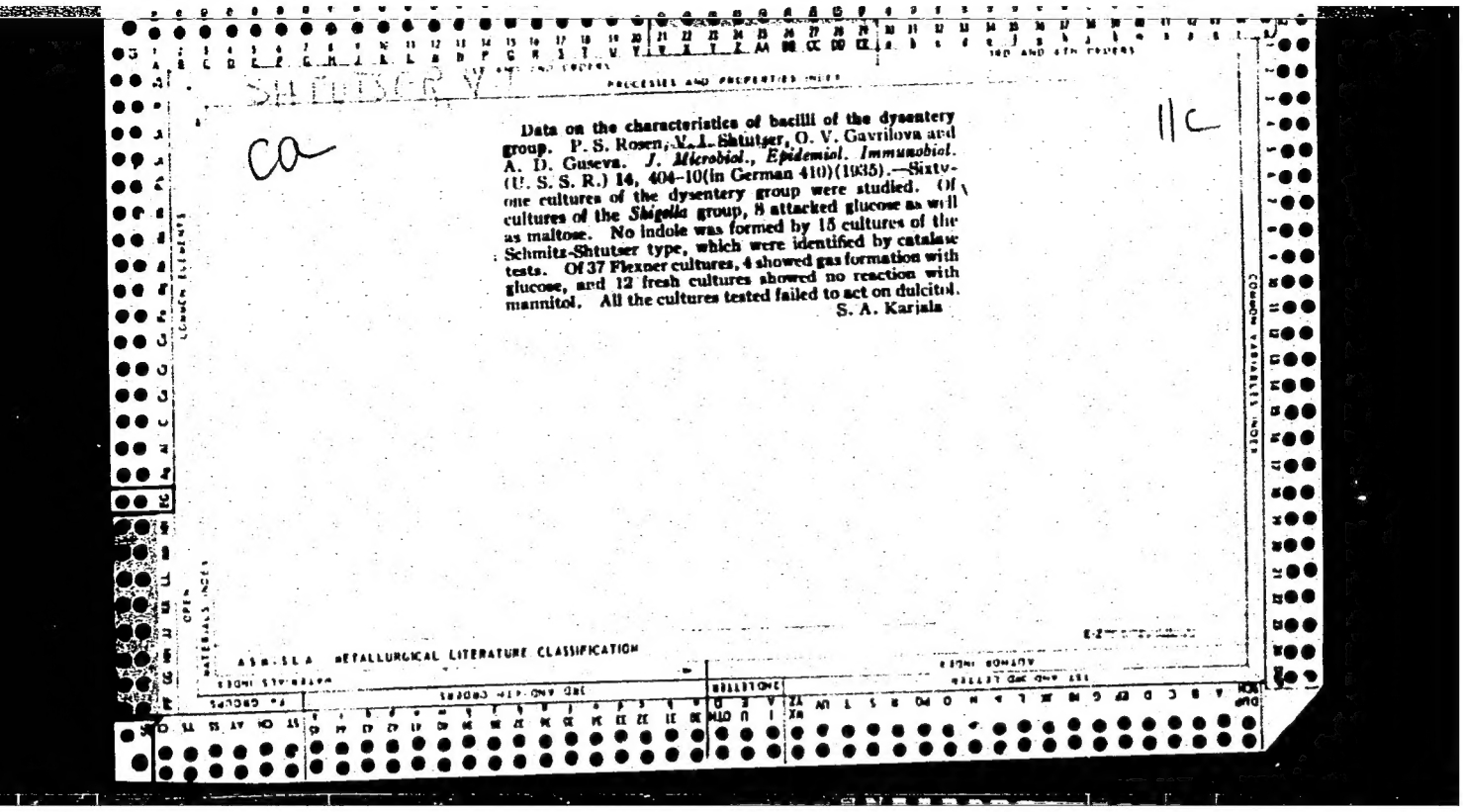

Data on the characteristics of bacilli of the dysentery group. P. S. Rosen, V. I. Shtutser, O. V. Gavrilova and A. D. Guseva. *J. Microbiol., Epidemiol. Immunobiol.* (U. S. S. R.) **14**, 404–10(in German 410)(1935).—Sixty-one cultures of the dysentery group were studied. Of cultures of the *Shigella* group, 8 attacked glucose as well as maltose. No indole was formed by 15 cultures of the Schmitz-Shtutser type, which were identified by catalase tests. Of 37 Flexner cultures, 4 showed gas formation with glucose, and 12 fresh cultures showed no reaction with mannitol. All the cultures tested failed to act on dulcitol.

S. A. Karjala

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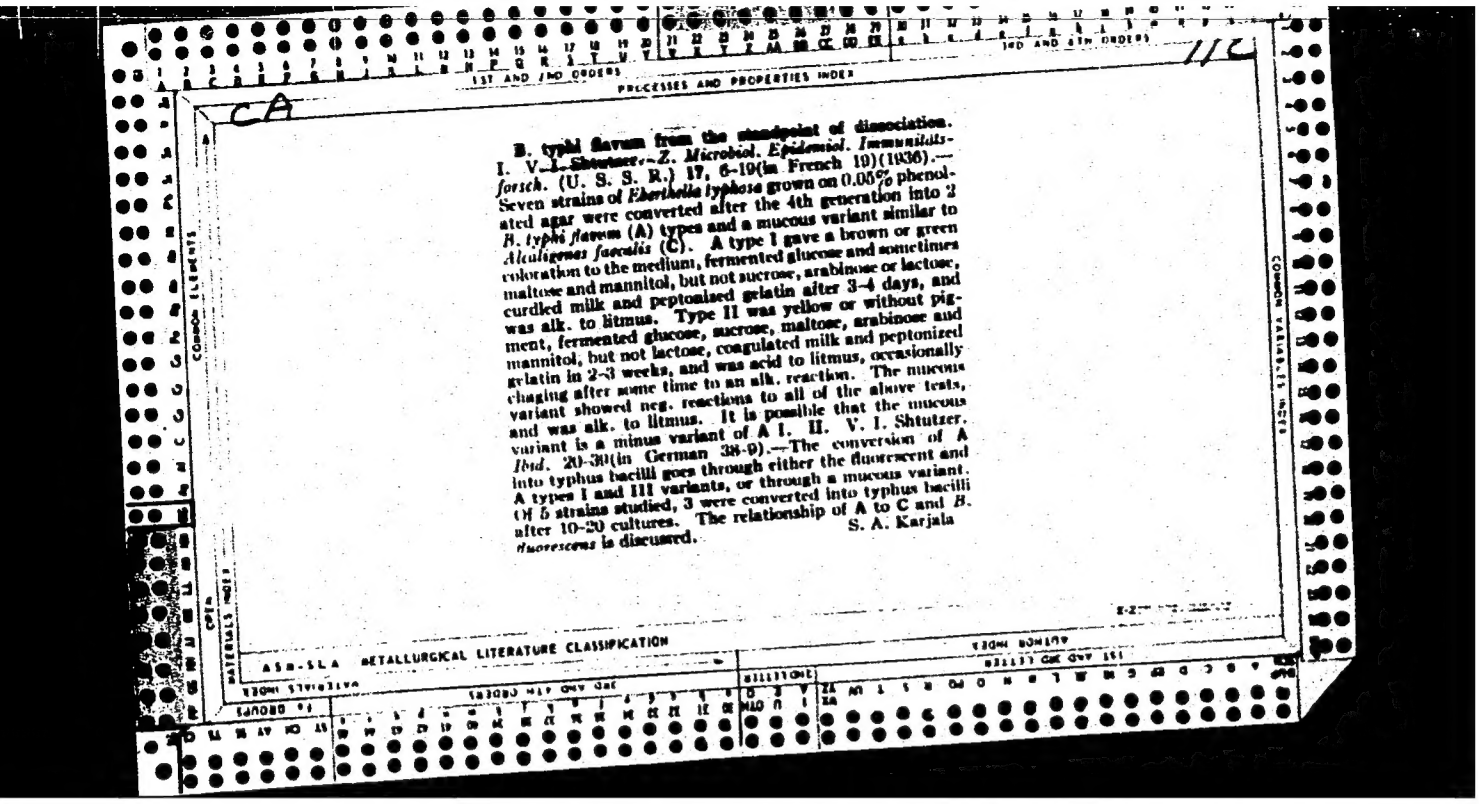

CA

B. typhi flavum from the standpoint of dissociation. I. V. I. Shtutzer.—*Z. Microbiol. Epidemiol. Immunitäts-forsch.* (U. S. S. R.) 17, 6-19(in French 19)(1936).—Seven strains of *Eberthella typhosa* grown on 0.05% phenolated agar were converted after the 4th generation into 2 *B. typhi flavum* (A) types and a mucous variant similar to *Alcaligenes faecalis* (C). A type I gave a brown or green coloration to the medium, fermented glucose and sometimes maltose and mannitol, but not sucrose, arabinose or lactose, curdled milk and peptonised gelatin after 3–4 days, and was alk. to litmus. Type II was yellow or without pigment, fermented glucose, sucrose, maltose, arabinose and mannitol, but not lactose, coagulated milk and peptonized gelatin in 2–3 weeks, and was acid to litmus, occasionally changing after some time to an alk. reaction. The mucous variant showed neg. reactions to all of the above tests, and was alk. to litmus. It is possible that the mucous variant is a minus variant of A I, II, V. I. Shtutzer. *Ibid.* 20-30(in German 38-9).—The conversion of A into typhus bacilli goes through either the fluorescent and A types I and III variants, or through a mucous variant. Of 5 strains studied, 3 were converted into typhus bacilli after 10–20 cultures. The relationship of A to C and *B. fluorescens* is discussed.

S. A. Karjala

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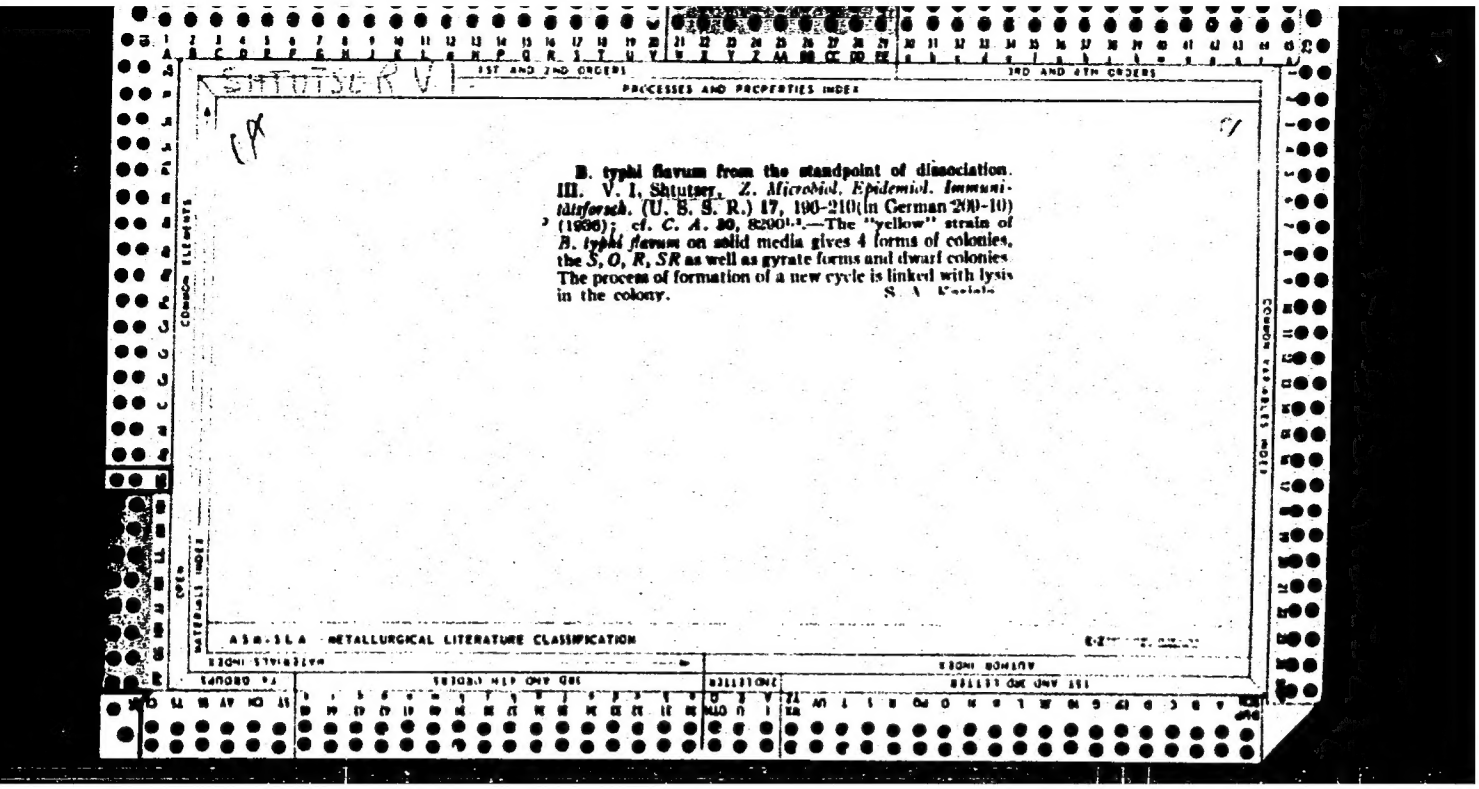

PROCESSES AND PROPERTIES INDEX

B. typhi flavum from the standpoint of dissociation. III. V. I. Shtutser. *Z. Mikrobiol. Epidemiol. Immunitätsforsch.* (U. S. S. R.) **17**, 190–210(in German 200–10) (1936); cf. *C. A.* **30**, 8200[1].—The "yellow" strain of *B. typhi flavum* on solid media gives 4 forms of colonies, the *S, O, R, SR* as well as gyrate forms and dwarf colonies. The process of formation of a new cycle is linked with lysis in the colony.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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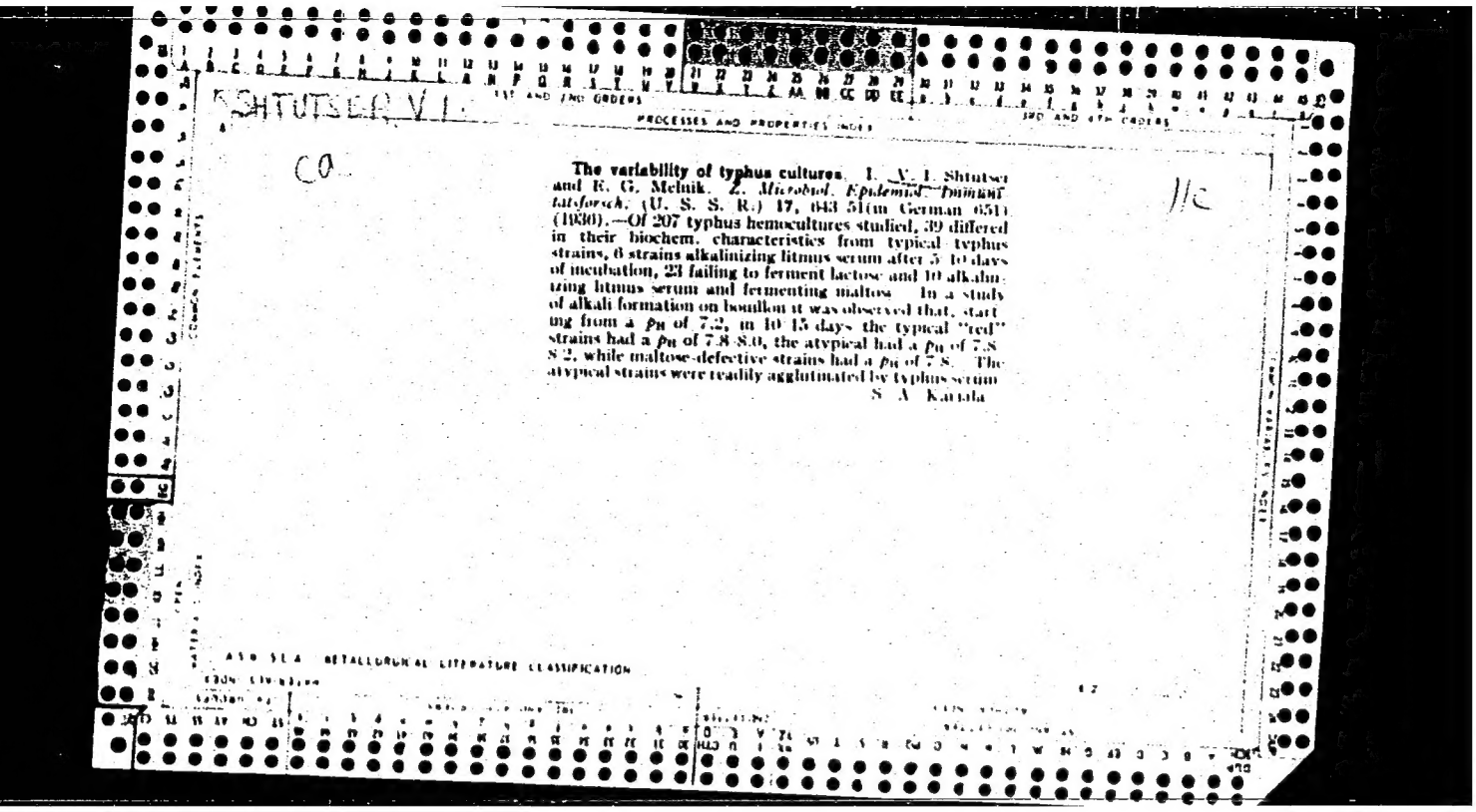

SHTUTSER, V. I.

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CO

11c

The variability of typhus cultures. I. V. I. Shtutser and E. G. Melnik. *Z. Microbiol. Epidemiol. Immunitätsforsch.* (U. S. S. R.) 17, 643-51(in German 651) (1936).—Of 207 typhus hemocultures studied, 39 differed in their biochem. characteristics from typical typhus strains, 6 strains alkalinizing litmus serum after 5-10 days of incubation, 23 failing to ferment lactose and 10 alkalinizing litmus serum and fermenting maltose. In a study of alkali formation on bouillon it was observed that, starting from a p_H of 7.2, in 10-15 days the typical "red" strains had a p_H of 7.8-8.0, the atypical had a p_H of 7.8-8.2, while maltose-defective strains had a p_H of 7.8. The atypical strains were readily agglutinated by typhus serum.

S. A. Kariala

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

[redacted], V. I.

Mbr., Clinicobacteriology Lab., Inst. Neurosurgery im. N. N. Burdenko, Dept. Clinical Med., Acad. Med. Sci., -c1948-. "Data on Microflora in Brain Scars Observed in Postoperative Cerebral Traumata," Vop. Neyrokhirurgii, No. 4, 1948.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTUTSER, V. I.

SHTUTSER, V. I. - "Characteristics of the Microflora of Delayed Complications After Cranial-Cerebral Wounds." Sub 18 Jun 52, Acad Med Sci USSR. (Dissertation for the Degree of Doctor in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTUTSER, V.I.

Effect of penicillin and other antibiotics on strains isolated in late posttraimatic sequelae. Vop.neirokhir. 19 no.6:38-42 N-D '55. (MLRA 9:1)

1. Iz bakteriologicheskoy laboratorii Instituta neyrokhirurgii imeni akad. N.N.Burdenko Akademii Meditsinskikh nauk SSSR.

(BRAIN, wounds and injuries,
bacteriol. of old inj.,isolation of L forms of Staphylococcus & Streptoc.,eff. of antibiotics on isolated strains)

(WOUNDS AND INJURIES,
brain, old in.,isolated of L forms of Staphylococcus & Streptoc. eff. of antibiotics on isolated strains)

(ANTIBIOTICS, effects,
on Micrococcus pyogenes & Streptoc.,L-forms, isolated from old brain inj.)

(MICROCOCCUS PYOGENES,
L-form,isolated from old brain inj.,eff. on antibiotics on isolated strains)

(STREPTOCOCCUS,
L form, eff. of antibiotics on strains isolated from old brain inj.)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTUTSER, V.I.

Characteristic pathological changes induced by microbes during the residual period of experimental traumatic diseases of the brain. Vopr. neirokhir. 21 no.2:17-23 Mr-Ap '57 (MLRA 10:5)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni akad. N.N. Burdenko AMN SSSR.
(BRAIN, wounds and inj.
exper., pathol. changes induced by bact.)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHLYKOV, A.A., prof.; SHTUTSER, V.I., doktor med.nauk; IMSHENETSKAYA, V.F., kand.med.nauk; TRIADSKAYA, M.I., vrach; GLADKOVA, K.K., vrach

Use of antibiotics under systematic control of their activity in suppurative inflammatory processes of the brain and its meninges. Probl.sovr.neirokhir. 3:425-431 '59. (MIRA 16:6)

(ENCEPHALITIS) (ANTIBIOTICS)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTUTSER, V.I.

One-stage study on the activity of certain antibiotics in relation to strains isolated in suppurative-inflammatory intracerebral processes. Antibiotiki 4 no.4:104-106 Jl-Ag '59. (MIRA 12:11)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni N.N.Burdenko AMN SSSR.
(BRAIN dis)
(ANTIBIOTICS pharmacol)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTUTSER, V.I., doktor med.nauk; SHLYKOV, A.A., prof.; IMSHENETSKAYA, V.F., kand.med.nauk

Use of a rapid method for determining the effect of antibiotics in suppurative inflammatory lesions of the central nervous system. Probl.sovr.neirokhir. 3:407-414 '59. (MIRA 16:6)
(NERVOUS SYSTEM--DISEASES) (ANTIBIOTICS)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTUTSER, V.I., doktor med.nauk

Comparative activity of several antibiotics on pyogenic staphylococci excreted from patients with suppurative inflammatory processes of the brain and its meninges. Probl.sovr.neirokhir. 3: 415-424 '59. (MIRA 16:6)
(STAPHYLOCOCCUS) (ENCEPHALITIS) (ANTIBIOTICS)

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SHTUTSER, V.I., doktor med.nauk

Identification of streptococci microforms and their possible role in inflammatory and allergic processes in the brain. Probl.sovr. neirokhir. 3:433-449 '59. (MIRA 16:6)
(ENCEPHALITIS) (STREPTOCOCCUS) (ANTIGENS AND ANTIBODIES)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHUTSER, V.[illegible] [illegible] med. nauk; IMSHENETSKAYA, V.F., kand. med. nauk

[illegible] of suppurative cerebrocranial complications and [illegible] relation to antibiotics. Vop. nevrokhir. no.1:57-59 '65. (MIRA 18:10)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni N.N. Burdenko (direktor - prof. A.L. Arutyunov) AMN SSSR, Moskva.

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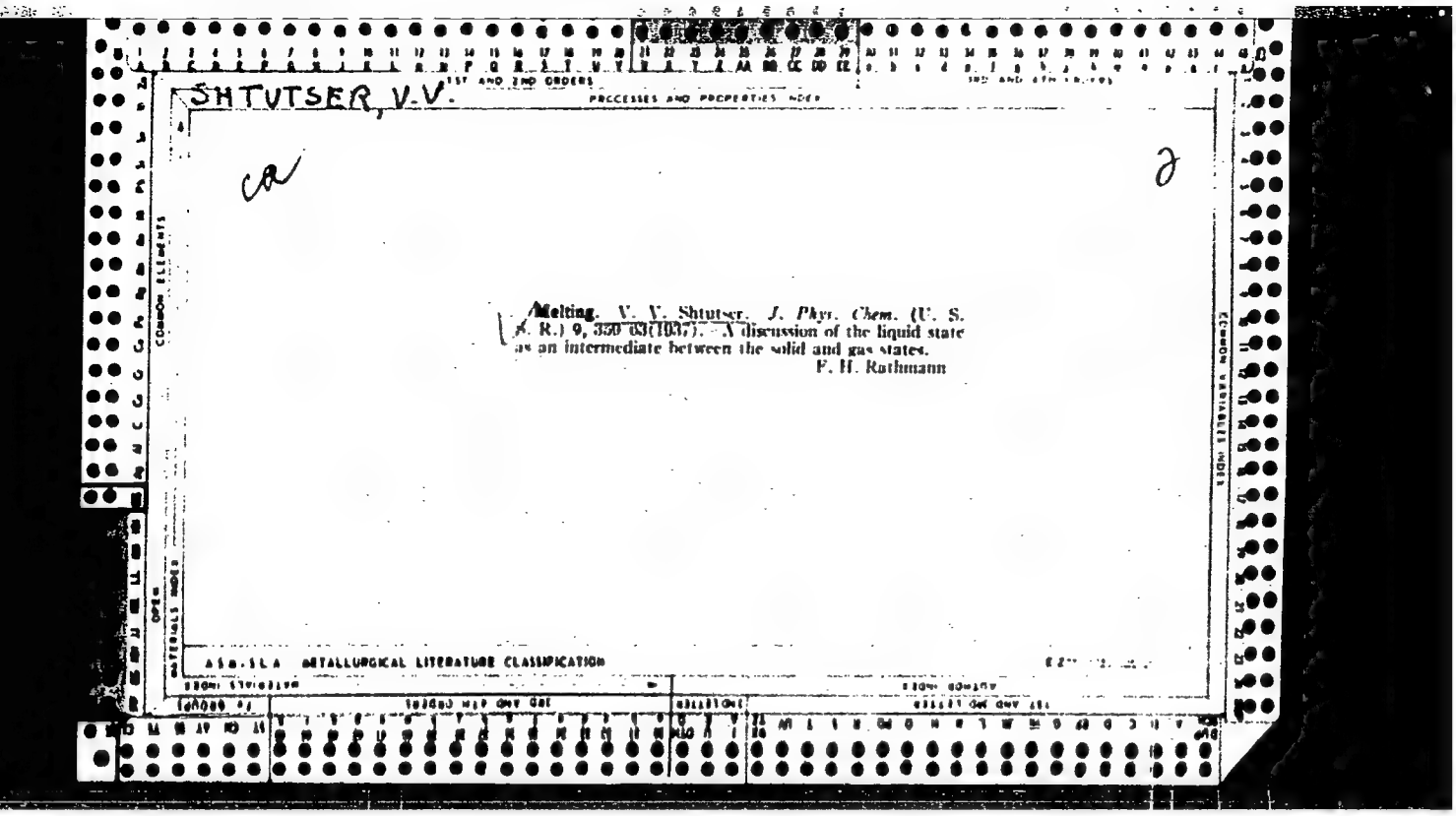

SHTUTSER, V.V.

ca

d

Melting. V. V. Shtutser. *J. Phys. Chem.* (U. S. S. R.) 9, 330-63(1937). — A discussion of the liquid state as an intermediate between the solid and gas states.
F. H. Rathmann

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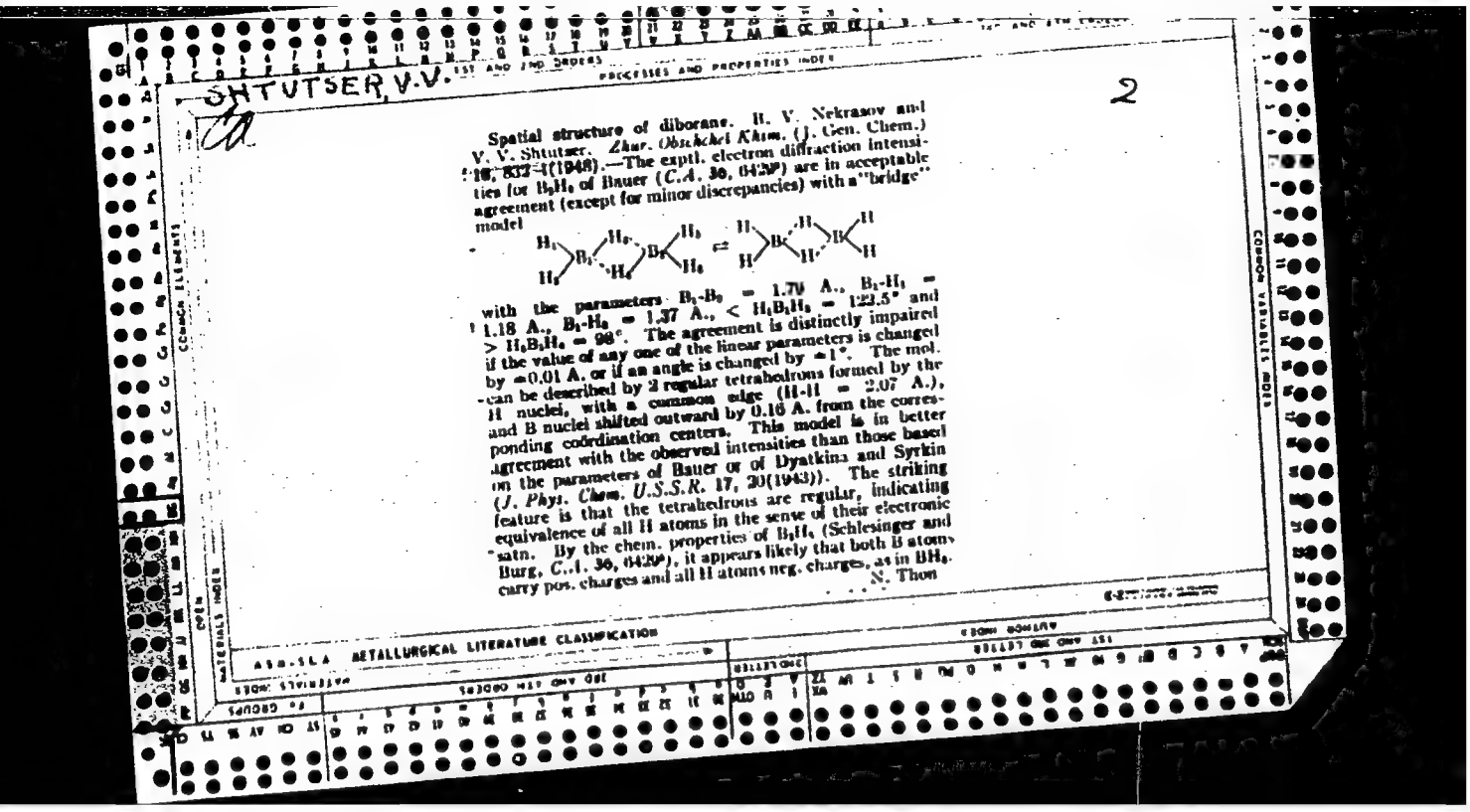

SHTUTSER, V.V.

2

Spatial structure of diborane. N. V. Nekrasov and V. V. Shtutser. *Zhur. Obshchei Khim.* (J. Gen. Chem.) 18, 832–4(1948).—The expt. electron diffraction intensities for B_2H_6 of Bauer (*C.A.* 30, 0429[2]) are in acceptable agreement (except for minor discrepancies) with a "bridge" model

with the parameters B_1-B_2 = 1.70 A., B_1-H_1 = 1.18 A., B_1-H_3 = 1.37 A., < $H_1B_1H_3$ = 122.5° and > $H_3B_1H_4$ = 98°. The agreement is distinctly impaired if the value of any one of the linear parameters is changed by ±0.01 A. or if an angle is changed by ±1°. The mol. can be described by 2 regular tetrahedrons formed by the H nuclei, with a common edge (H-H = 2.07 A.), and B nuclei shifted outward by 0.16 A. from the corresponding coördination centers. This model is in better agreement with the observed intensities than those based on the parameters of Bauer or of Dyatkina and Syrkin (*J. Phys. Chem. U.S.S.R.* 17, 30(1943)). The striking feature is that the tetrahedrons are regular, indicating equivalence of all H atoms in the sense of their electronic satn. By the chem. properties of B_2H_6 (Schlesinger and Burg, *C.A.* 36, 0429[6]), it appears likely that both B atoms carry pos. charges and all H atoms neg. charges, as in BH_4.

N. Thon

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SHTUTSER, V. V.

Laboratory method for production of chlorites by reduction of chlorine dioxide with zinc. V. V. Shtutser and A. S. Chernyshev. *Nauch. Issledovatel. Trudy Moskov. Tekstil. Inst.* 13, 112–15(1954); *Referat. Zhur., Khim.* 1955, No. 36041.—To obtain $NaClO_2$, shake a ClO_2 soln. with 20–30% excess Zn dust. After 1–2 min. (after disappearance of ClO_2 odor) filter rapidly to prevent further reduction to chloride. Titrate a sample of the $Zn(ClO_2)_2$ soln. with NaOH (phenolphthalein indicator). The $Zn(OH)_2$ formed fixes dissolved CO_2. To the remaining part of the filtrate add a quantity of NaOH detd. by this titration and filter. After evapn. of the filtrate the residue contained $NaClO_2$ approx. 85 and NaCl + $NaClO_2$ approx. 14 mol. %. A satd. aq. 0.3–0.35*M* ClO_2 soln. was obtained at 0–5°. The CO_2 in this soln. was detd. by pptg. it with $Ba(NO_3)_2$, driving off ClO_2 by passing air, and titrating with HCl.

—M. Hosch

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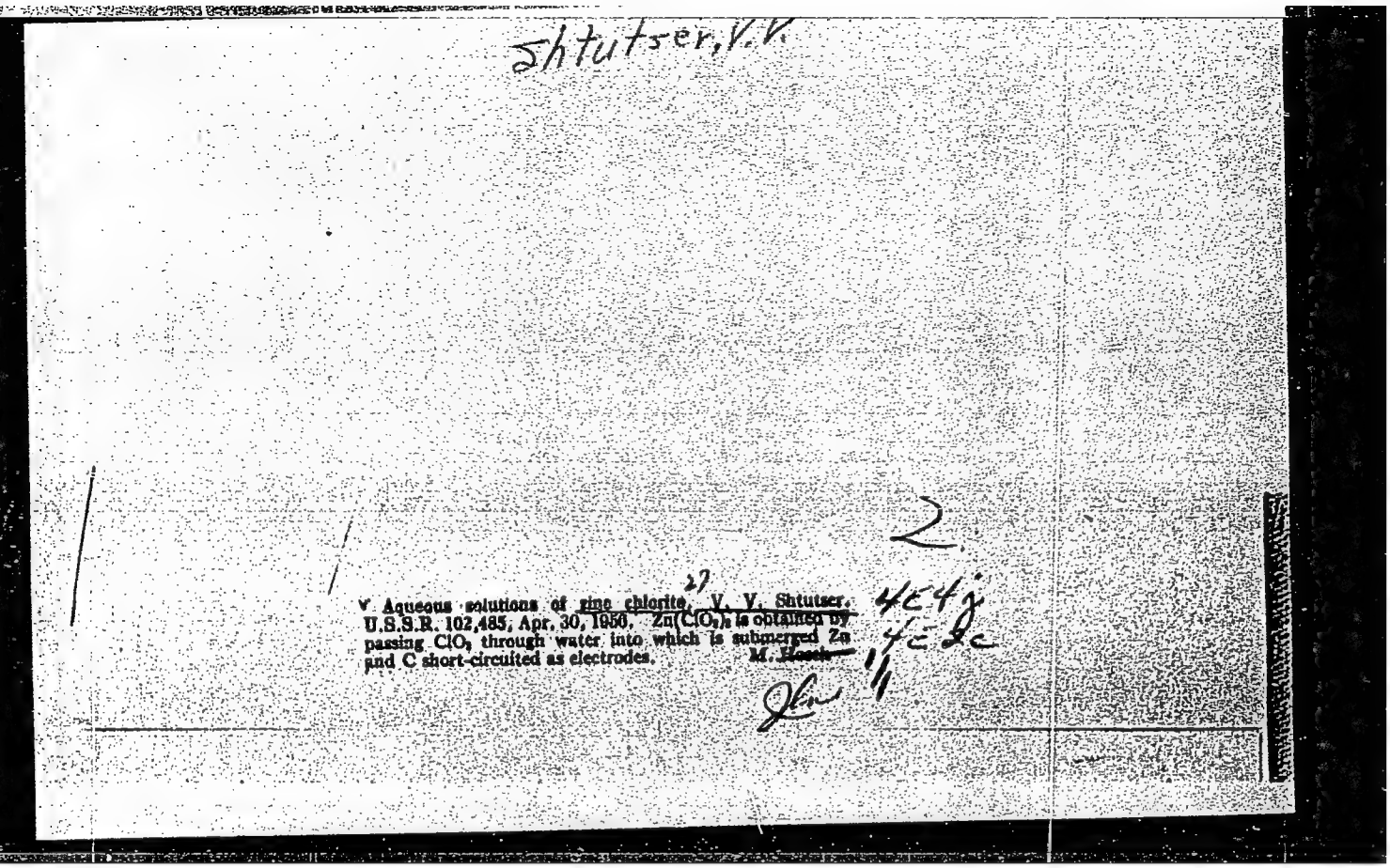

Shtutser, V. V.

2.

27

Aqueous solutions of zinc chlorite. V. V. Shtutser. U.S.S.R. 102,485, Apr. 30, 1950. $Zn(ClO_2)_2$ is obtained by passing ClO_2 through water into which is submerged Zn and C short-circuited as electrodes. M. Hosch

4c4j
4c2c
11

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RUMANIA/Inorganic Chemistry - Complex Compounds. C.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 30289

Author : Chernyshev, A.S., Shtutser, V.V., Semenova, N.G.
Inst :
Title : Chlorites, Their Preparation, Uses and Properties.

Orig Pub : Am. Rom.-Sov. Ser. chim., 1956, 10, No 4, 70-80

Abst : A translation. See RZhKhim, 1956, 42906.

Card 1/1

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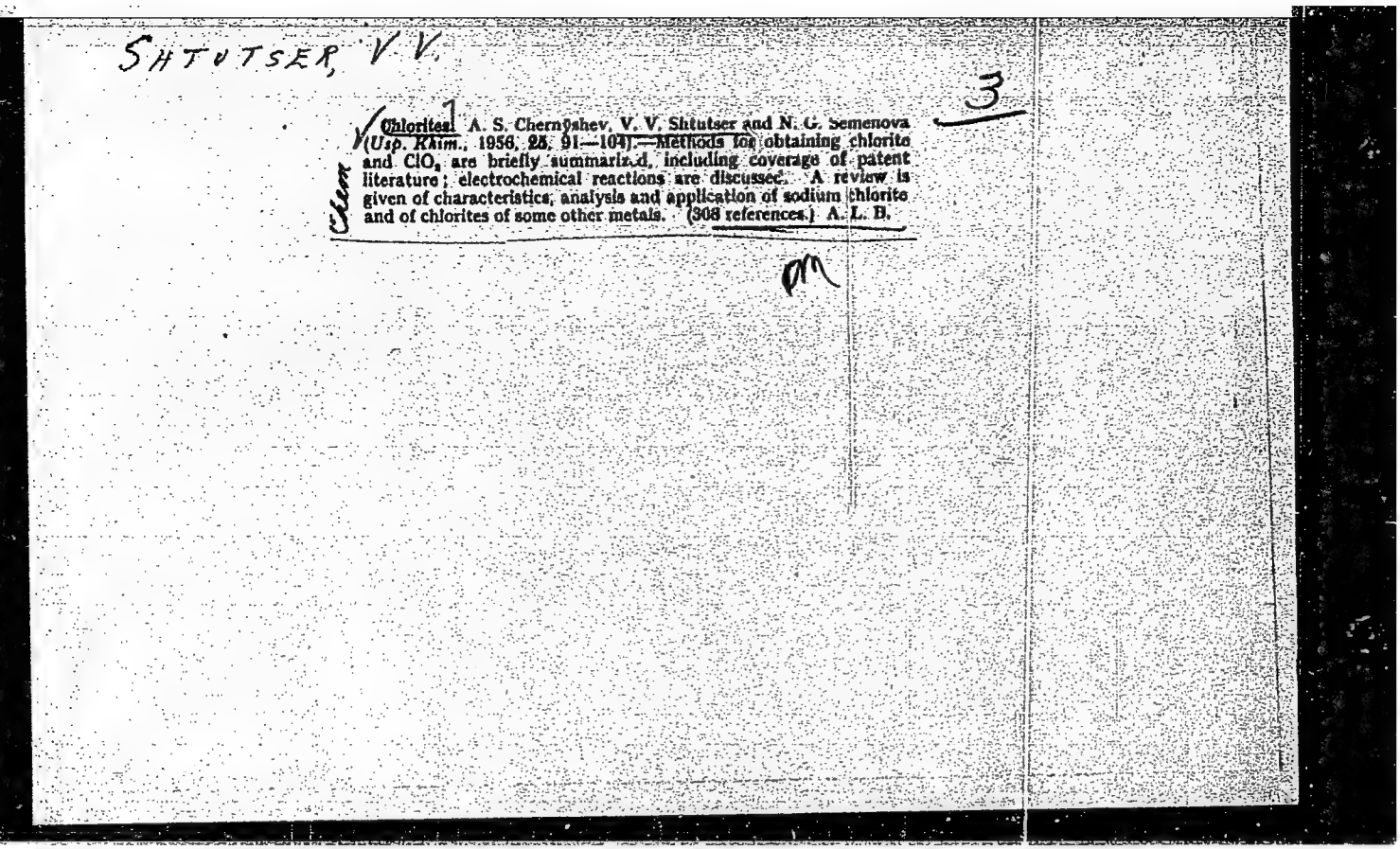

SHTUTSER, V. V.

3

Chlorites. A. S. Chernyshev, V. V. Shtutser and N. G. Semenova (*Usp. Khim.*, 1956, 25, 91—104).—Methods for obtaining chlorite and ClO_2 are briefly summarized, including coverage of patent literature; electrochemical reactions are discussed. A review is given of characteristics, analysis and application of sodium chlorite and of chlorites of some other metals. (308 references.) A. L. B.

Chem

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SHTUTSER, V.V., kand.tekhn.nauk

Chloritic bleaching of fabrics. Tekst. prom. 18 no.3:44-47 Mr '58.
(Bleaching) (Sodium chlorite) (MIRA 11:3)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

06223
5(1) SOV/64-59-6-15/28

AUTHORS: Shtutser, V. V., Chernyshev, A. S., Semenova, N. G.

TITLE: Production of Sodium Chlorite by Reducing Chlorine Dioxide With Zinc

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 6, pp 513 - 515 (USSR)

ABSTRACT: The possibility of producing chlorite by means of the action of ClO_2 on granulated zinc has already been pointed out by Bray (Ref 7) and Bigorgne (Ref 8). In the present case the possibility of using zinc dust and cast zinc was investigated. Chlorine dioxide for the experiments with zinc dust was obtained from chlorates and oxalic acid besides sulphuric acid (Ref 10) and solutions of 0.3 - 0.35 Mol ClO_2 per 1 l of water were prepared. The ClO_2 concentration was determined iodometrically, chloride traces argentometrically, and the CO_2 content by means of $Ba(NO_3)_2$. Zinc dust was added to the ClO_2 solution, which was filtered after the disappearance of

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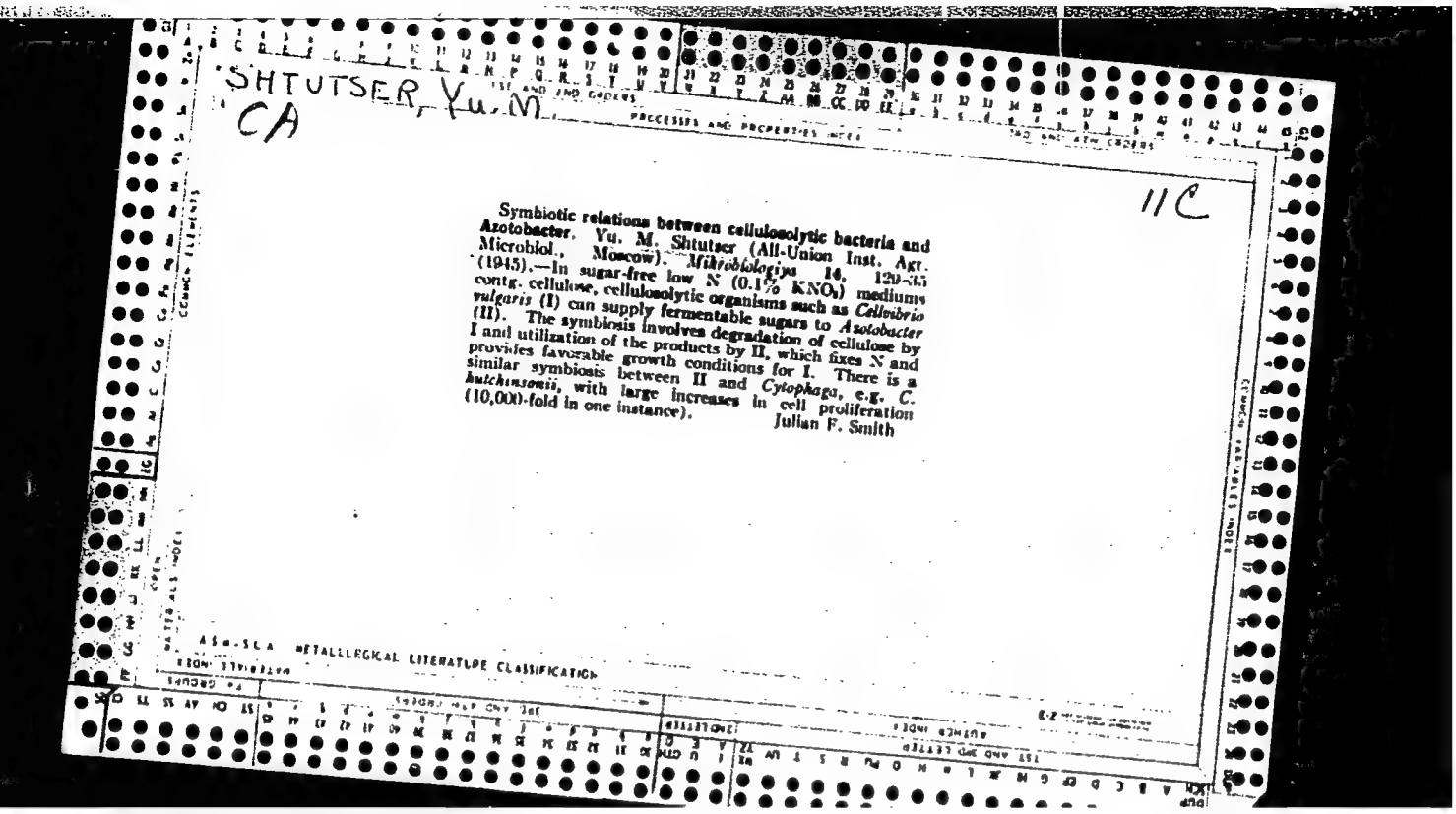

SHTUTSER, Yu. M.
CA

11C

Symbiotic relations between cellulosolytic bacteria and *Azotobacter*. Yu. M. Shtutser (All-Union Inst. Agr. Microbiol., Moscow). *Mikrobiologiya* 14, 129–35 (1945).—In sugar-free low N (0.1% KNO_3) mediums contg. cellulose, cellulosolytic organisms such as *Cellvibrio vulgaris* (I) can supply fermentable sugars to *Azotobacter* (II). The symbiosis involves degradation of cellulose by I and utilization of the products by II, which fixes N and provides favorable growth conditions for I. There is a similar symbiosis between II and *Cytophaga*, e.g. *C. hutchinsonii*, with large increases in cell proliferation (10,000)-fold in one instance).

Julian F. Smith

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

RAPPOPORT, F.S.; SHTUTT, I.M.; KARDAKOV, A.I., red.

[Standard plans for enterprises manufacturing corrugated paperboard boxes] Tipovye proekty predpriiatii po proizvodstvu gofrirovannoi kartonnoi tary. Moskva, TSentr. in-t tekhn. informatsii i ekon. issl. po lesnoi, bumazhnoi i derevoobrabatyvaiushchei promyshl., 1962. 15 p.
(MIRA 17:4)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHIRNOV, K.L.; AKATOV, V.A., prof., doktor veterin. nauk; KAYRYUKSHTENE, V. [Kairiukstiene, V.]; SERGEYEV,A.; KHOPIN,A.; NIKIFOROV, V.; SHTUYKIS, V. [Stuikis,V.]

Information and news. Veterinariia 38 no.4:90-96 Ap '61 (MIRA 18:1)

1. Uchenyy sekretar' Litovskogo nauchno-issledovatel'skogo instituta veterinarii (for Shtuykis).

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

L 45483-66 I DJ
ACC NR: AT6033339 SOURCE CODE: HU/2504/65/051/03-/0469/0482

AUTHOR: Kisbocskoi, L.--Kishbochkoi, L.; Stvrteczky, F.--Shtvrtetski, F.

ORG: Technical University, Budapest

TITLE: Calculation of factors influencing the output characteristics of fluid couplings

SOURCE: Academia scientiarum hungaricae. Acta technica, v. 51, no. 3-4, 1965, 469-482

TOPIC TAGS: clutch, hydraulic device, hydraulic fluid

ABSTRACT: Equations were derived to characterize the dimensions of fluid couplings and the loss factors of fluid couplings. The equations permit more accurate design techniques than was possible hitherto by using presently known techniques. The required data are obtained from considering the effects of geometric configuration, blade thickness, number of blades, shape of blade tip, speed, diameter, and the physical characteristics of the coupling fluid. The results obtained with the aid of the equations described compare well with experimentally obtained values. Orig. art. has: 5 figures, 32 formulas and 1 table. [Orig. art. in Eng.] [JPRS: 33,909]

SUB CODE: 13 / SUBM DATE: 08Jun64 / SOV REF: 002 / OTH REF: 006

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTUIKSI, V. (Learned Secretary of the Institute).

"New Veterinary Scientific-Research Institute [in Kaisiadorys, Lithuania] School appliances for visual studies, as aid for animal breeders [albums, posters, books]."

Veterinariya, Vol. 38, No. 4, 1961.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTUYKIS, V. V.

SHTUYKIS, V. V. - "A comparative study of immunobiological reactions to brucellosis in calves inoculated with vaccine of the strain Brucella bovis No. 19, and with the culture strain Brucella suis No. 64, with added alum". Leningrad, 1955. Min Higher education USSR. Leningrad Veterinary Inst, Chair of Epizootiology. (Dissertation for the degree of Candidate of Beterinary Sciences).

SO: Knizhnaya Letopis' No. 46, 12 November 1955. Moscow

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

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L 17801-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4/Pb-4/Pa-4 ASD(a)-5 RM
ACCESSION NR: AP4044746 S/0153/64/007/003/0476/0481

AUTHOR: Klimenko, I. B.; Yanovskaya, N. B.; Shty*chkova, T. P.

TITLE: Orientation of molecules on stretching polyacrylonitrile film

SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 3, 1964, 476-481

TOPIC TAGS: polyacrylonitrile, polyacrylonitrile film, orientation, polyacrylonitrile film stretching linear polymer

ABSTRACT: The investigation was conducted to determine which of two mechanisms for the orientation of linear polymers applied to the orientation of polyacrylonitrile (PAN) molecules: orientation of monomer units due to formation of ordered sections which on stretching are oriented relative to the axis of tension, or orientation of the molecules themselves as a result of their straightening. IR spectroscopic, x-ray, electron microscopic and double refraction studies were conducted on PAN film formed from dimethylformamide solutions and dried at 60C. The PAN, molecular weight 68300, had been synthesized by the static me-

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thod using the persulfate- hydrosulfite redox system. It was concluded both mechanisms were required to explain the behavior of PAN on stretching. At small elongations-up to twofold-- the stretching involved orientation of monomer units. With stretching greater than about 2.8, the mechanism was exclusively the second--orientation of the molecules, with the orientation of the side groups remaining static at the same extent as obtained under elonations of about 2.6-2.8. Under the same degree of stretching the CN groups appeared better oriented than the CH_2 groups since they were oriented not only due to the stretching but also due to their interaction. Significant orientation cannot be attained at temperatures below the PAN glass temperature. Due to the strong interaction of the nitrile groups and the insufficient mobility of the PAN molecules, 100C and higher temperatures are required. The dimethylformamide molecules were associated with the PAN polymer. On stretching, the dimethylformamide molecules became oriented so the C=O bond was mostly perpendicular to the direction of the stretch. Stretched PAN film had a fibrillar structure similar to thread. Curves were drawn from which the percent of macromolecules at a given angle with respect to the direction of stretch could be determined at different degrees of

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stretching of the PAN film (fig. 1). "The authors thank Prof. L. V. Smirnov for directing the present work." Orig. art. has: 6 figures

ASSOCIATION: Leningradskiy tekstil'ny*y institut im. S. M. Kirova Kafedra fiziki (Leningrad Textile Institute Physics Department)

SUBMITTED: 13Jun63 ENCL: 01

SUB CODE: MT, GC NO REF SOV: 002 OTHER: 007

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L 17801-65
ACCESSION NR: AP4044746

ENCLOSURE: 01

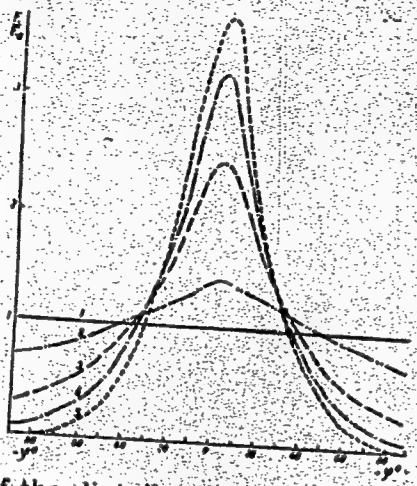

fig. 1. Standardized curves of the distribution of macromolecules at angles relative to the axis of stretch. Degree of stretch, ν : 1--unstretches; 2--1.5; 3--2.3; 4--3.5; 5--4.

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VASHCHENKO, K.I.; AVRINSKIY, P.V.; FIRSTOV, A.N.; NESELOVSKIY, V.L.;
Prinimali uchastiye: VARENIK, P. A.; YAKOVENKO, G.F.; SHEVCHUK, R.S.;
NOSOVA, Ye. M.; KUGEL', A.V.; SHTYKA, G.N.; MONDZELEVSKIY, S.P.

Vats for the fusion of caustic soda. Lit. proizv. no.6:4-6 Je '61.
(MIRA 14:6)

(Iron founding)
(Chemical engineering—Equipment and supplies)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKA, V.P., inzh.; SELIVANOV, Yu.I., inzh.

Irrigation of corn by the use of long furrows. Gidr. i mel. 13 no.5:13-20 My '61. (MIRA 14:5)

1. Kurskaya zonal'naya opytno-meliorativnaya stantsiya.
(Central Black Earth Region—Corn (Maize)—Irrigation)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKALEV-KATANOV, N.G. (stantsiya Agryz, Gor'kovskoy zheleznoy dorogi, ul. Pushkina, d.5., kv. 34); KARIMOV, T.I.

Case of erroneous surgery in a patient with hemophilia. Vest. khir. 90 no.5:139 My '63 (MIRA 17:5)

1. Iz khirurgicheskogo otdeleniya (nachal'nik - N.G.Shtykalev-Katanov) otdelencheskoy bol'nitsy (nachal'nik - R.A. Mukhametova) stantsii Agryz Gor'kovskoy zheleznoy dorogi.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKALEV-KATANOV, N. G.

Surgical treatment of spontaneous pneumothorax. Vest. khir. 92 no.5:102-107 My '64. (MIRA 18:1)

1. Iz 2-y kafedry klinicheskoy khirurgii (zav. - prof. B.K. Osipov) TSentral'nogo instituta usovershenstvovaniya vrachey. Adres avtora: Moskva, Staroye shosse, 19, 2-ya kafedra klinicheskoy khirurgii TSentral'nogo instituta usovershenstvovaniya vrachey.

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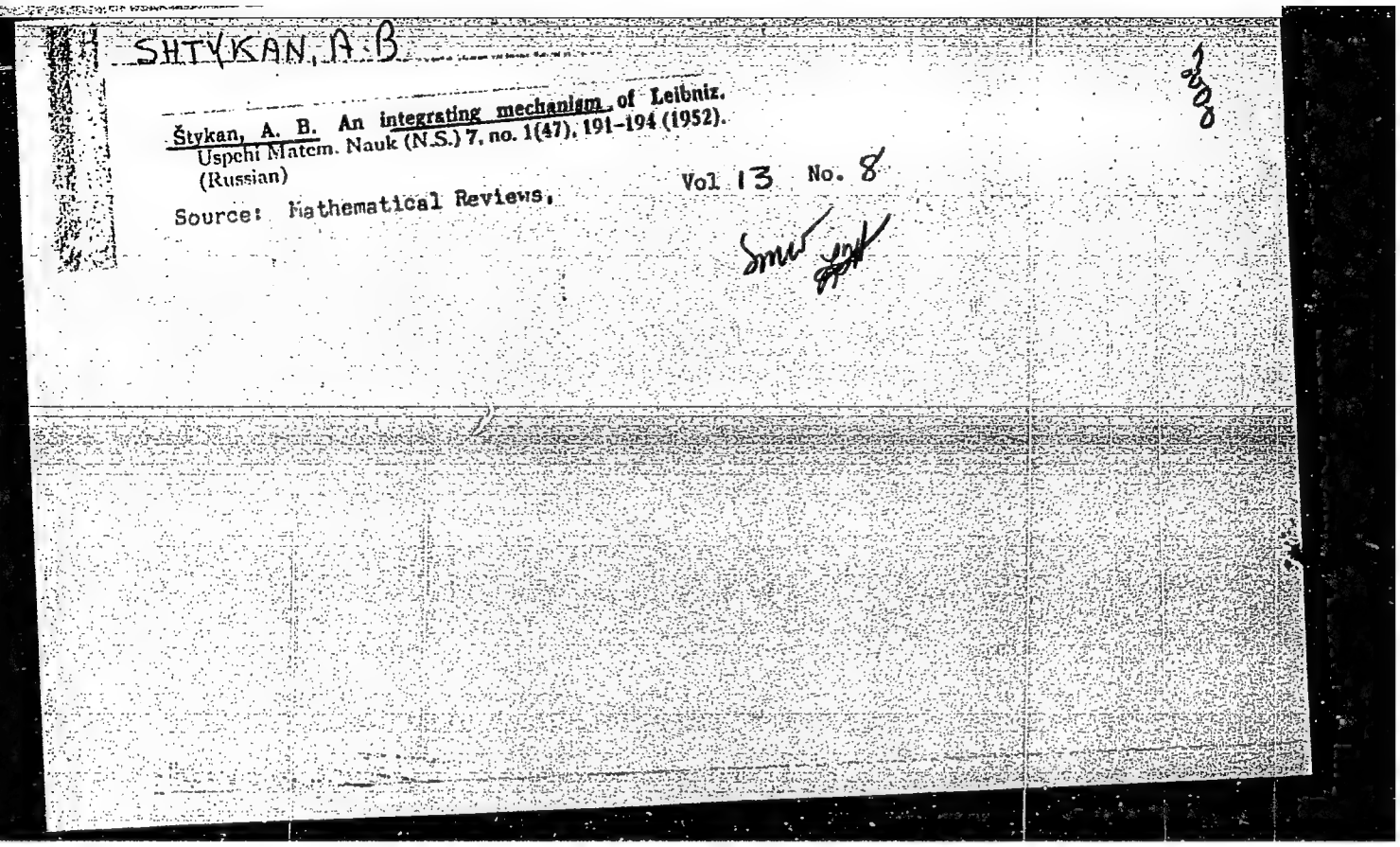

SHTYKAN, A.B.

Štykan, A. B. An integrating mechanism of Leibniz.
Uspehi Matem. Nauk (N.S.) 7, no. 1(47), 191–194 (1952).
(Russian)

Source: Mathematical Reviews, Vol. 13 No. 8

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKAN, A. B.

USSR/Mathematics - Lagging Argument Mar/Apr 52
(Deviating Argument)

"Graphical Solution of Differential Equations With Deviating Agrument," A. B. Shtykan

"Uspekh Matemat Nauk" Vol VII, No 2 (48), pp 184-191

Considers the graphical soln of eqs with lagging argument of the type $y'(x) = F[x, y(x-a(x))]$. Concludes that integral and integrodifferential eqs can possibly be solved graphically on the basis of their connection with differential-functional eqs, as indicated by A. D. Myshkis in his article "General Theory of Differential Equations With Lagging Argument" (Ibid., Vol IV, No 5 (33), 1949, 99-141). Submitted 3 Dec 51.

214T57

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

STYKAN, A. B.

Mathematical Reviews
Vol. 14 No. 8
Sept. 1953
Numerical and Graphical Methods.

7-13-54
LL

Stykan, A.B. Graphical methods of solution of some problems of mathematical analysis. Akad. Nauk SSSR, Inzenernyl Sbornik 13, 177-186 (1952). (Russian)

By means of examples the author shows how to solve graphically such problems as the integration of functions, solution of ordinary differential equations of first order, systems of such equations, finding an approximate mean value for a derivative, etc. He uses a method called "superposition of coordinates", and another called the "method of straight lines". W. E. Milne (Corvallis, Ore.).

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKAN, A. B.

PA 240T89

USSR/Mathematics - Graphical Computation 21 Dec 52

"Graphical Computation of Stieltjes Integrals," A. B. Shtykan, Irkutsk State U imeni Zhdanov

"DAN SSSR" Vol 87, No 6, pp 893-895

Uses method of tangents. Thanks V. V. Vasil'yev for reading the manuscript and for his helpful comments, and L. A. Lyusternik who directed the author's attention to the desirability of finding graphical solns of Stieltjes integrals. Presented by Acad M. A. Lavrent'yev 25 Oct 52.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKAN, A. B.

Stykan, A. B. Graphical solution of Volterra integral equations. Irkutsk. Gos. Univ. Trudy. 8 (1953), no. 1, 28–35. (Russian)

The author presents a graphical treatment of the non-linear integral equation of Volterra type

$$u(x)=f(x)+\int_0^x K(x, s)\cdot\mu[u(s)]\cdot dx$$

in which the kernel $K(x, s)$ and the functions of $f(x)$ and $\mu(u)$ are given. The construction is particularly simple if the kernel has one or other of the forms

$$K(x, s)=F[\psi(x)-s] \text{ and } K(x, s)=F(\psi(x)\cdot s).$$

The graphical solution for $u(x)=1+\int_0^x e^{-xs}u^2(s)\cdot ds$ and for

$$u(x)=f(x)+\int_0^x \sqrt{(x-s)}\cdot u(s)\cdot ds$$

is worked out in detail.

W. E. Milne.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKAN, A.B.

Štykan, A. B. Graphical methods of solution of integral equations. Inžen. Sb. 15, 216-222 (1953). (Russian) 1 - F/W

The author presents methods for the graphical solution of nonlinear equations in the form

$$u(x)=f(x)+\int_a^b K(x,s)[u(s)]^n ds$$

and the corresponding form with x in place of b in the upper limit, where in each case the kernel is of special type: $K(x,s)=\sum_{i=1}^{n}\psi_i(x)\varphi_i(s)$.

W. E. Milne.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKAN, A.B. (Irkutsk)

Training models in stereometry. Mat. v shkole no.6:17-19 N-D '54.
(Mensuration) (MLRA 7:11)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKAN A.B.

SUBJECT USSR/MATHEMATICS/Integral equations CARD 1/2 PG - 6
AUTHOR ŠTYKAN A.B.
TITLE The graphical solution of integro-differential equations.
PERIODICAL Uspechi mat. Nauk 10, No.4, 171-180 (1955)
reviewed 5/1956

At first the author considers the non-linear integro-differential equation

$$u'(x) = f(x) + \xi\left[\psi(x)\int_0^x \frac{M[u(x)]}{\varphi(s)}\,ds\right].$$

For abbreviation let be

$$\int_0^x \frac{M[u(x)]}{\varphi(s)}\,ds = \varrho(x), \qquad \psi(x)\,\varrho(x) = \omega(x).$$

If the curves $f(x)$, $\psi(x)$, $M(u)$, $\xi(\omega)$ and the initial conditions $u(x_0)$ are given, then the solution can be constructed graphically. Then the author treats the equation

$$u(x) = f(x) + \xi\left[\psi(x)\int_0^x \frac{M[u'(x)]}{\varphi(s)}\,ds\right].$$

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These two cases form the starting point for the consideration of integro-differential equations of higher order.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKAN, A.B. (Irkutsk)

Evaluating the convergence speed of gradual approximations and controlling the plotting in case of graphic integration. Inzh.sbor. 24:209-216 '56. (MLRA 10:5)
(Approximate computation) (Integrals--Graphic methods)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

3-1-20/32

AUTHOR: Shtykan, A.B., Engineer-Designer, and Kharkeyevich, Yu.F., Dotsent

TITLE: This was Done in a Vuz (Eto sdelano v vuze) New Means of Mechanization of Mathematical Computations (Novyye sredstva mekhanizatsii matematicheskikh vychisleniy)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, # 1, pp 64-65 (USSR)

ABSTRACT: A combined integrator-computer "КИ -2" was manufactured at the Irkutsk University and exhibited at the All-Union Industrial Fair 1957. It is a mathematical device for individual use with which three types of problems can be solved; integration of graphically given functions, integration of ordinary differential equations, and geometrical constructions and measurements. It replaces more than 30 specialized devices including polar, linear and radial planimeters, a logarithmic compass, conchoidograph, etc. Besides this, the integrator makes it possible to mechanize the solution of such problems for which specialized devices have not been made so far. The working principle is simpler than that of other mathematical devices of a similar class.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

The weight is 3.2 kg including case and a set of instruction diagrams.

The scientific workers of the Irkutsk University have also designed other mechanical, modelling, portable devices which make it easier to solve an even wider scope of important, practical problems than was considered possible until recently. As regards efficiency and generality they cannot be compared with the big mathematical machines. But these portable devices are accessible to every specialist who must often carry out various computations.

The author deals in detail with the mechanic modelling devices now in use, and points out that A.B.Shtykan, one of the authors, came to the conclusion that for devices based on a kinematic principle, the scheme of operation can be represented by a drawing and utilized for approximate graphic solutions of the problems involved. Such solutions will always be purely graphical and can be performed without computations. The results received can be further developed and extended to new problems independent of the scheme of the device. In their turn, the graphical constructions found will serve as a means of synthesis of new mechanisms the operation of which can again be represented graphically.

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This interrelation between kinematic and approximate graphical methods made it possible to build a number of new devices which are by far more universal than the existing ones.

In conclusion the authors stress the necessity for a further development and industrial production of all kinds of mathematical devices, including electronic ones.

There is 1 photo.

ASSOCIATION: Irkutsk State University imeni A.A.Zhdanov (Irkutskiy gosudarstvennyy universitet imeni A.A.Zhdanova)

AVAILABLE: Library of Congress

Card 3/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SOV/42-[illegible]

AUTHOR: Shtykan, A.B.

TITLE: On the Graphic Solution of Differential Equations With an Advancing Argument for Several Given Initial Conditions (O graficheskom reshenii differentsial'nykh uravneniy s operezhayushchim argumentom pri raznykh vidakh zadaniya nachal'nogo usloviya)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 6, pp 193-206 (USSR)

ABSTRACT: The author proposes an approximate graphic solution of first order differential equations with an advancing argument. The convergence of the graphic successive approximations is only conjectured but not rigorously proved. In a footnote A.D. Myshkis mentions that the present paper is an allusion to other mathematicians; it is expected that they find initial conditions being defined more suitable and that the method becomes founded rigorously in a modified form. The author thanks V.V.Vasil'yev and Yu.F. Kharkeyevich for the revision of the manuscript and Myshkis for the detailed criticism of the paper.
There are 15 references, 13 of which are Soviet, 1 French, and 1 American.

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

On the Graphic Solution of Differential Equations With an Advancing Argument for Several Given Initial Conditions SOV/42-13-6-26/33

SUBMITTED: May 21, 1956

Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SETYKAN, A. B., Candidate Phys-Math Sci (diss) -- "Graphic and mechanical solutions of certain problems of mathematical analysis". Irkutsk, 1959. 15 pp (Min Higher Educ USSR, Irkutsk State U im A. A. Zhdanov), 200 copies (KL, No 23, 1959, 161)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKAN, A.B. (Irkutsk)

Evaluating errors and controlling integration. Stroi. mekh. i rasch. soor. 2 no.6:40-42 '60. (MIRA 13:12)
(Errors, Theory of) (Integral equations)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKAN, A.B.

Approximate graphic and graphomechanical computation of Schwarz's and Poisson's integrals. Izv.AN SSSR.Ser.geofiz. no.10: 1495-1498 O '60. (MIRA 13:9)

1. Irkutskiy gosudarstvennyy universitet im. A.A.Zhdanova.
(Integrals) (Graphic methods)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKAN, A.B.

Idea of isoclinal [illegible] one of I. Bernoulii's works. Trudy Inst. ist. est. i tekh. [illegible]:350-359 '60. (MIRA 14:2)
([illegible], Integral)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

L 54904-65 EWT(d) Pg-4 IJP(c)

ACCESSION NR: AR5016324 UR/0044/65/000/006/B091/B092
518:517.91/.94

SOURCE: Ref. zh. Matematika, Abs. 6B482

14
B

AUTHOR: Shtykan, A. B.

16

TITLE: Approximate integration of ordinary differential equations of first order by the method of S. A. Chaplygin

CITED SOURCE: Sb. Kratkiye soobshch. o nauchno-issled. rabotakh za 1961 g. Irkutskiy un-t. Irkutsk, 1963, 14-21

TOPIC TAGS: differential equation, approximation calculation

TRANSLATION: Methods are proposed for solving differential equations facilitating the practical application of S. A. Chaplygin's method. Means are described which make it possible in certain cases not only to find the first pair of approximating "enveloping" equations, but also, without performing integration, to talk about whether the integral of each of them approximates the desired integral function from above or from below. A nonlinear differential equation of the form

$$y'(x)=f(x)+\varphi(x)\eta(y), \qquad (1)$$

is studied, in which $f(x)$ and $\varphi(x)$ are continuous real functions of the real

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ACCESSION NR: AR5016324

argument x, and $\eta(y)$ is a continuous nonlinear function of the desired function y(x). It is shown that what was proposed for (1) is also valid for equations of the form

$$y'(x)=f(x)+\sum_{i=1}^{n}\varphi_i(x)\cdot\eta_i(y)\ (i=1,2,3,\ldots,n), \qquad (2)$$

and also for equations

$$y'(x)=f\left(\frac{mx+n\eta(y)+p}{m_1x+n_1\eta(y)+p_1}\right), \qquad (3)$$

which, by means of replacement of the functions $\eta(y)$ and $\eta_1(y)$ by linear functions of the form ay + b, reduce to homogeneous equations which are integrable in quadratures. A method is indicated for obtaining pairs of integrable "enveloping" equations for differential equations of the form

$$y'(x)=\sum_{i=1}^{n}\eta_i(x,y), \qquad (4)$$

in which each of the nonlinear functions depends not only on the desired function y, but also on x. Numerical examples are given. Bibliography 3 entries, 3 tables.

I. Shelikhova

SUB CODE: MA ENCL: 00

Card 2/2

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

L 58442-65 EWT(d) Pg-4 IJP(c)
ACCESSION NR: AR5013634 UR/0044/65/000/004/B146/B147
518.3

SOURCE: Ref. zh. Matematika, Abs. 4B754

AUTHOR: Shtykan, A. B. 16

TITLE: Differential equations with deviating argument and their approximate graphical solution

CITED SOURCE: Dokl. 3-y Sibirsk. konferentsii po matem. i mekhan., 1964. Tomsk, Tomskiy un-t, 1964, 174-175

TOPIC TAGS: differential equation, graphic solution, Cauchy problem, uniqueness condition, existence condition

TRANSLATION: The Cauchy problem is considered for equations of the type

$$y'(x) = f(x, y(x), y(x - \tau_1), y(x + \tau_2)) \quad (1)$$

The following theorem is formulated: Each differential equation (1) whose right side satisfies within some limited domain the conditions for the existence and uniqueness, can be set in a one-to-one correspondence with an equation of non-deviating argument

$$y'(x) = F(x, y(x))$$

such that

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ACCESSION NR: AR5013634

$$f(x, y(x), y(x-\tau_1), y(x+\tau_2)) \equiv F(x, y(x)) \quad (2)$$

And consequently

$$y(x) - y(x_0) + \int_{x_0}^{x} f(x, y(x), y(x-\tau_1), y(x+\tau_2))\,dx \equiv$$

$$\equiv y(x_0) + \int_{x_0}^{x} F(x, y(x))\,dx.$$

The proof is based on a geometrical interpretation. Two methods of approximate graphical construction of the integral curves are given, and it is shown that it is sometimes possible on the basis of the geometrical interpretation to find for the functions F(x, y(x)) analytic expressions that satisfy approximately the identity (2). A physical interpretation of several variants of the initial problem is proposed for equations with deviating argument. I. Sh.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

L 11172-67 EWT(d) IJP(c)
ACC NR: AR6013770 SOURCE CODE: UR/0044/65/000/010/B099/B100

/6

AUTHOR: Shtykan, A. B.

TITLE: Graphic solution of an integro-differential equation with a deviating argument

SOURCE: Ref. zh. Matematika, Abs. 10B461

REF SOURCE: Sb. Kratkiye soobshch. o nauchno-issled. rabotakh za 1961 g. Irkutskiy un-t, Irkutsk, 1963, 3-11

TOPIC TAGS: applied mathematics, graphic technique, integrodifferential equation

ABSTRACT: A method of graphic solution of integro-differential equations proposed by the author before (Ref. zh. Mat. 1955, no. 7, 5526) is generalized to include equations of the Volterra type with a deviating argument. The construction of solutions for equations of two types is described

$$u'(x)=f(x)+\xi\left[\int_{x_0}^{x}K(x,s)\,\mu((u'(s+\alpha(s)))\,ds\right], \quad (1)$$

$$u'(x)=f(x)+\xi\left[\int_{x_0}^{x}K(x,s)\,\mu(u'(s+\alpha(s)))\,ds\right], \quad (2)$$

in which the kernel $K(x,s)$ is degenerate (e.g. $K(x,s)=\psi(x)/\varphi(s)$ and the deviation function in (1), $\alpha(x)>0$ for $x_0\leqslant x<A$ and $\alpha(x)<0$ for $A\leqslant x$; in the case,

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ACC NR: AR6013776

however, of (2), $\alpha(x)>0$ for $x_0 \leqslant x<A$, and $\alpha(x)>0$ for $A \leqslant x<\omega$. If in (1) the delay magnitude satifies the condition

$$\left|\alpha(x)\right| \leqslant \left|x - x_0\right| = \left|A - x_0\right| \qquad (3)$$

then the solution can be constructed on the whole interval x, x_0 on an arbitrary initial point S_0. In the case of (2), S_0 cannot be taken arbitrarily, but must be determined by (2). Since the condition (3) is not fulfilled here, the specification of the initial function $u_0(x)$ depicted by a curve passing thru the point S_0 is required. [Translation].

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

92-58-5-3/39

AUTHORS: Trukhan, V. I., Member of the Supreme Soviet of the USSR, and Foremen: Kopeykin, M. F.; Shtykh, A. P.; Samoylov, V. I.; Baldina, Ye. A.

TITLE: Appeal to All Operators, Specialists and Workmen of the Most Important Professions in Enterprises of the Petroleum and Chemical Industry (Ko vsem operatoram, apparatchikam i rabochim vedushchikh professiy predpriyatiy neftyanoy i khimicheskoy promyshlennosti)

PERIODICAL: Neftyanik, 1958, Nr 5, p 3 (USSR)

ABSTRACT: This appeal to all operators, specialists and workmen of the petroleum and chemical industry enumerates the achievements attained by chemical industry workers in 1957 and it urges them to make a further effort to increase the output of fertilizers, synthetic rubber, paints, plastics, etc. It also urges them to improve processing methods by taking advantage of advanced techniques and automation. A pledge by various teams of chemical plants, shops and factories is included in this appeal. They pledge to improve operating conditions of processing units, to obtain better operational results, to overfulfill the annual production plan, and to hit new peaks in the output of chemicals. The results of operations carried out during the first quarter of 1958 indicate that the obligations undertaken by the chemical industry workers will be discharged in time.

Card 1/1 1. Petroleum industry-USSR 2. Chemical industry--USSR 3. Personnel --Pledges

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKHNO, N.

Official in the Ukrainian SSR Ministry of Food Products Industry and author of an article entitled "For Economy and Improvement in the State Apparatus: Inflated Staffs." (Izvestiya, 9 Dec 54, p. 2.)

SO: Current Digest of the Soviet Press, Vol. VI, No. 49, 19 Jan 55, Uncl. p. 19

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTERNOV, I.S. AND [illegible], N.B.

Brushes for Electrical Machinery, Their Manufacture and Uses (Shchetki dlya elektricheskikh mashin, ikh proizvodstvo i primeneniye), Gosenergoizdat, 1952, 158 pages.

This book contains a classification of electric brushes according to composition and technical characteristics. It discusses the properties of brushes as the determining factor in their application; the conditions which determine their operation; their role in the commutation process; and physicochemical properties of brushes. The book briefly describes the manufacture of brushes and discusses selection of brushes. In addition, the book contains rather detailed data on replacement of foreign-made brushes with domestic brushes. Also, the book describes causes of sparking and methods of eliminating it.

This book is intended for engineers, technicians, and qualified personnel engaged in adjusting and operating electric machines.

So: W-30262

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKHNOV, G.S.

Calculation of the total surface of particles of fine fraction. (MIRA 16:5)
Zav.lab. 29 no.5:584-586 '63.

1. Odesskiy inzhenerno-stroitel'nyy institut.
(Particle size determination)

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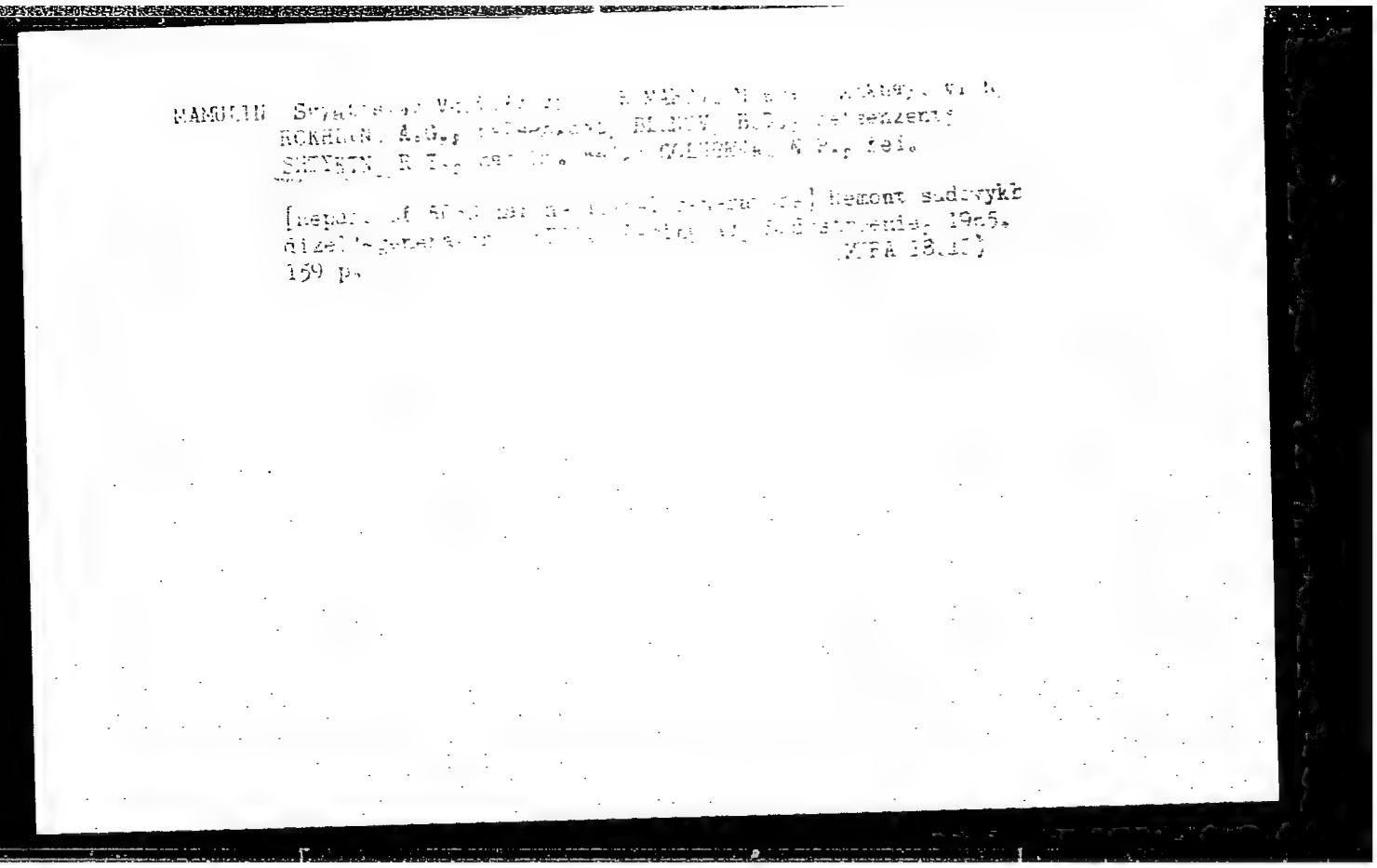

MAMULIN, Svyatoslav [illegible] [illegible] [illegible] [illegible]
ROKHLIN, A.G., [illegible], BLINOV, B.D., [illegible]
SHTYKIN, R.T., [illegible] [illegible] [illegible] [illegible], [illegible]

[Repair of [illegible] [illegible] [illegible] [illegible]] Remont sudovykh dizel'-generatorov [illegible] [illegible] [illegible] Sudostroenie, 1965. 159 p. (MIRA 18:[illegible])

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

ROZHANSKIY, Grigoriy Stanislavovich; KARAS', V.Z., kand. tekhn. nauk, retsenzent; SHTYKIN, R.Z., inzh., retsenzent; VARKOVETSKAYA, A.I., red.

[Marine internal combustion engines; construction organization] Sudovye dvigateli vnutrennego sgoraniia; konstruktivnoe ustroistvo, Leningrad, Sudostroenie, 1965. 390 p. (MIRA 18:8)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKOV, A.M.

USSR/ Engineering - Dies

Card 1/1 : Pub. 128 - 14/25

Authors : Malinovskiy, L. Yu., and Shtykov, A. M.

Title : Highly efficient dies for manufacturing enamelware

Periodical : Vest. mash. 1, 67-68, Jan 1955

Abstract : A brief description is presented of the structure and operation of composite-type commercial dies, designated for manufacturing enamelware. Drawings.

Institution : .....

Submitted : .....

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKOV, K.

Three categories of fleshing are necessary. Mias. ind. SSSR 29 no.1:27 '58. (MIRA 11:3)

1.Direktor Troitskogo myasokombinata.
(Meat--Specifications)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYKOV, N., general-mayor

Commanders and soldiers. Komm.Vooruzh. Sil 1 no.13:38-42 Jl '61.
(MIRA 14:7)
(Military discipline)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

ACC NR: AP6032463 SOURCE CODE: UR/0129/66/000/009/0073/0075

AUTHOR: Shtykov, P. A.

ORG: none

TITLE: Awards at the All-Union Contest of the Scientific-Engineering Society of the Machine Building Industry for 1966 of D. K. Chernov and N. A. Minkevich prizes

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 9, 1966, 73-75

TOPIC TAGS: metallurgic research, metal diffusion chromizing, austenitic exhaust valve steel, subzero temperature deformation, precipitation hardenable steel, steel heat treatment, spring steel, austenitic steel, valve, high strength metal

ABSTRACT: The First Chernov's Prize was awarded to A. G. Rakhshtadt (MVTU, Moscow) for the monograph "Spring alloys," which discusses in detail criteria for the selection of spring materials and methods of strengthening these materials. Two Second Prizes were awarded to a team from IMET (Moscow) for the work "The role of dislocations in the strengthening and failure of metals" and to A. N. Minkevich (Moscow Institute of Steels and Alloys) for the monograph "Thermochemical treatment of metals and alloys," which in addition to conventional methods, such as carburizing, nitriding, and carbonitriding, also discusses some new processes which, though had not yet widely used, are promising. G. N. Dubinin's book "Chromium diffusion coatings on alloys" received a Third Prize. Nine honorary certificates were awarded, one among

Card 1/2

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ACC NR: AP6032463

them to a combined team from NAMI, the Elektrostal' metallurgical plant, and GAZ for the development of a new austenitic steel for the exhaust valves of internal combustion engines operating at temperatures up to 900C. Two honorary certificates were awarded to a NIIKhIMMASh team for "An investigation of base materials and welds used in the fabrication of forged-welded and multilayer vessels" and to a TsNIIChERMET team for "An investigation of the design strength of austenitic steels and their phase transformations with deformation in liquid hydrogen. The First Minkevich Prize was awarded to a TsNIIMPS team for "Heat treatment of 25 m long rails" and the Second Prize to a team from an unidentified organization (Ya. I. Spektorskiy, N. P. Petrovichev, A. P. Fomin, N. G. Aleksandrov, G. B. Stroganov, V. N. Tumanov, A. P. Gracheva, N. I. Barabenenkov, T. G. Pozdnyakova and S. L. Natapov) for "The development of a heat treatment procedure with a minimum distortion for large parts made of austenitic-martensitic precipitation hardenable steels."

SUB CODE: 11/ SUBM DATE: none

Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

ACC NR: AP6036890 (N) SOURCE CODE: UR/0122/66/000/011/0086/0087

AUTHOR: Shtykov, P. A. (Engineer)

ORG: none

TITLE: Results of the All-Union contest: "For better scientific research work, design of equipment and introduction of ultrasonics in machine building."

SOURCE: Vestnik mashinostroyeniya, no. 11, 1966, 86-87

TOPIC TAGS: ultrasonics, ultrasonic treatment, ultrasonic welding

ABSTRACT: The Central Board of the Scientific-Engineering Association of the Machine Building Industry examined 16 works by 60 contestants for the best scientific research works on the design of equipment and the use of ultrasonics in machine building. The first prize was awarded to B. A. Agranat and V. I. Bashkirov (Moscow Institute of Steel and Alloys) for their work "A Method of Increasing the Intensity of Shock Waves in Ultrasonic Cavitation and its Technological Application." The method widened the field of application of ultrasound in technology and promoted the design of substantially new ultrasonic tools which were introduced in a number of plants. One of the second prizes was awarded to L. B. Maslan, N. A. Belousov, Z. S. Chekalina and N. G. Vavilov for "Technology and Equipment for Ultrasonic Treatment of Aluminum Alloys." The method developed makes possible the production of critical aluminum castings without defects. The method and equipment for ultrasonic degassing developed

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ACC NR: AP6036890

by the authors has been successfully used by various plants. One of the third prizes was awarded to A. V. Stamov-Vitkowski, V. A. Bondarenko, V. N. Ginin, V. P. Kirsanov and B. T. Mamet for the work "Ultrasonic Welding Gun." The gun has found a broad application in industry where it is used for joining electrical conductors to aluminum-alloy parts by means of aluminum-foil clips, making strain gages, aluminum foil screens, honeycomb structures, and for ultrasonic scraping, cleaning of deep (including blind) holes, degassing of molten metals and other work. Honorable certificates were awarded to I. I. Tevmin, O. V. Abramov, N. N. Dmitriev, A. M. Zubko, V. A. Boyarshinov, V. G. Markin and L. A. Tarakanov (Central Scientific Research Institute of Ferrous Metallurgy) for "Application of Ultrasound in the Treatment of Vacuum-Arc Melted Steels and Alloys," and to A. N. Kravchenko, A. D. Tarasova, I. V. Krichevskaya, A. P. Rumyantseva and L. P. Fedorova (Plant im. Kirov, Kharkov) for "Inspection of Turbine Blades by Ultrasonic Immersion." [TD]

SUB CODE: 11, 13, 14/ SUBM DATE: none/ ATD PRESS: 5109

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

ACC NR: AP6032463 SOURCE CODE: UR/0129/66/000/009/0073/0075

AUTHOR: Shtykov, P. A.

ORG: none

TITLE: Awards at the All-Union Contest of the Scientific-Engineering Society of the Machine Building Industry for 1966 of D. K. Chernov and N. A. Minkevich prizes

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 9, 1966, 73-75

TOPIC TAGS: metallurgic research, metal diffusion chromizing, austenitic exhaust valve steel, subzero temperature deformation, precipitation hardenable steel, steel heat treatment, spring steel, austenitic steel, valve, high strength metal

ABSTRACT: The First Chernov's Prize was awarded to A. G. Rakhshtadt (MVTU, Moscow) for the monograph "Spring alloys," which discusses in detail criteria for the selection of spring materials and methods of strengthening these materials. Two Second Prizes were awarded to a team from IMET (Moscow) for the work "The role of dislocations in the strengthening and failure of metals" and to A. N. Minkevich (Moscow Institute of Steels and Alloys) for the monograph "Thermochemical treatment of metals and alloys," which in addition to conventional methods, such as carburizing, nitriding, and carbonitriding, also discusses some new processes which, though had not yet widely used, are promising. G. N. Dubinin's book "Chromium diffusion coatings on alloys" received a Third Prize. Nine honorary certificates were awarded, one among

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ACC NR: AP6032463

them to a combined team from NAMI, the Elektrostal' metallurgical plant, and GAZ for the development of a new austenitic steel for the exhaust valves of internal combustion engines operating at temperatures up to 900C. Two honorary certificates were awarded to a NIIKhIMMASh team for "An investigation of base materials and welds used in the fabrication of forged-welded and multilayer vessels" and to a TsNIIChERMET team for "An investigation of the design strength of austenitic steels and their phase transformations with deformation in liquid hydrogen. The First Minkevich Prize was awarded to a TsNIIMPS team for "Heat treatment of 25 m long rails" and the Second Prize to a team from an unidentified organization (Ya. I. Spektorskiy, N. P. Petrovichev, A. P. Fomin, N. G. Aleksandrov, G. B. Stroganov, V. N. Tumanov, A. P. Gracheva, N. I. Barabenenkov, T. G. Pozdnyakova and S. L. Natapov) for "The development of a heat treatment procedure with a minimum distortion for large parts made of austenitic-martensitic precipitation hardenable steels."

SUB CODE: 11/ SUBM DATE: none

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ACCESSION NR: AP5007012 S/0129/65/000/003/0062/0064

69
41
B

AUTHOR: Shtykov, P. A.

TITLE: Results of the All-Union Contest of the TsP NTO Mashprom in competition for the D. K. Chernov and N. A. Minkevich prizes in 1964

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 3, 1965, 62-64

TOPIC TAGS: metallurgical research, steel, metal physical property, metal mechanical property

ABSTRACT: The article lists the names of the winning contestants and the titles of their books with a brief description of the contents. The first prize in memory of D. K. Chernov was won by M. G. Lozinskiy (IMET, Moscow) for his book "Structure and Properties of Metals and Alloys at High Temperature." Two second prizes in memory of Chernov were awarded: one for "A Study of Supercooled Austenite Transformations in Boiler Pipe Steels and the Properties of these Steels" by K. A. Lanskaya, E. N. Gorchakova, Z. T. Kobozeva, V. A. Frolkina and V. D. Zakharova (TsNIIChermet, Moscow), and the other for "A Metallographic Method for Determination of Inclusions" by L. G. Apolovnikova, S. A. Kiseleva, S. B. Lebedeva, V. Ya. Rybakova, A. G. Ryl'nikova and A. N. Chervyakov (TsNIIChermet, Moscow). Two third prizes were

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awarded: one for "Theoretical and Experimental Investigation of Corrosion and Strength of Materials in Liquid Metals" by V. P. Nikitin (TsKTI im. Polzunov, Leningrad), and the other for "The Use of Radioactive Isotopes for Studying a Steel Ingot" by M. I. Gol'dshteyn (Ural Scientific Research Institute of Ferrous Metals, Sverdlovsk). Sixty-five authors are given honorable mention for five books (of these, the name M. P. Sidel'kovskiy appears twice, as co-author of two different books). The first prize in memory of N. A. Minkevich went to A. A. Shmykov (MIEM, Moscow) for his book "The Thermal Power Engineer's Handbook." Two second prizes in memory of Minkevich were awarded: one to N. F. Dubrov and N. I. Lapkin (Ural Scientific Research Institute of Ferrous Metals) for "Transformer Steels," and the other to A. D. Assonov (MVMI, Moscow) for "Modern Heat Treatment Methods." Three third prizes were awarded: one to V. N. Biryukova (Gorky Metallurgical Plant) for her book "Cooling of Salt Baths and Improving the Cooling Capacity of Melts During Multistage and Isothermal Quenching," one to Yu. M. Lakhtin and G. N. Neustroyev (MADI, Moscow) for "Low Temperature Cyanidation of Structural Steels" and the last to R. A. Semenov, M. I. Rotenberg, A. V. Zapol'skaya, Yu. A. Krymskiy and Ye. S. Stolyarova (Kolomna Locomotive Plant) for "Development and Introduction of a Process for Nitriding Large Diesel Crankshafts and Cylindrical Sleeves Made of High Strength Magnesium Pig Iron." Thirteen authors are given honorable mention for four books. The next competition for the D. K. Chernov and N. A. Minkevich prizes will be held

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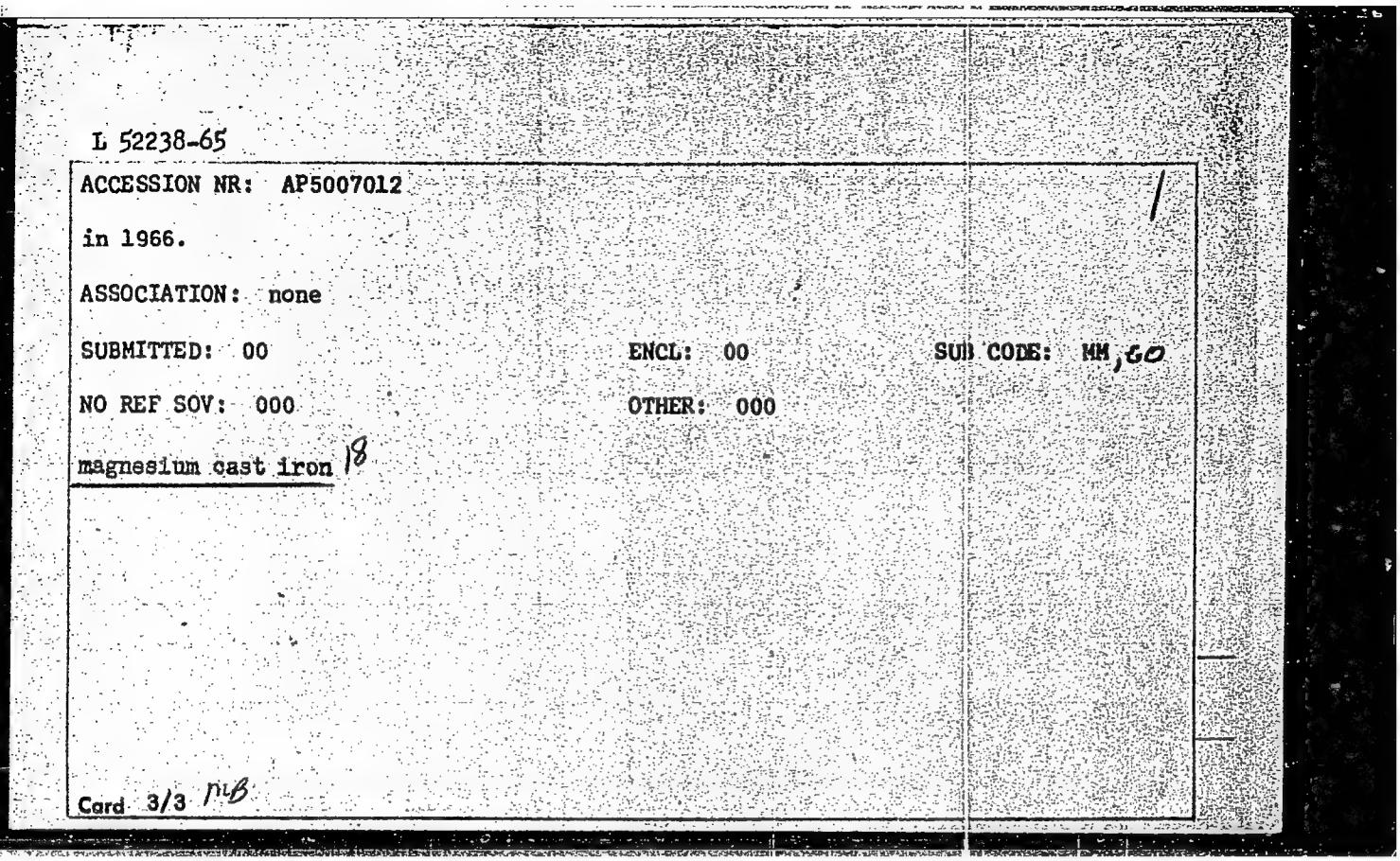

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ACCESSION NR: AP5007012

in 1966.

ASSOCIATION: none

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NO REF SOV: 000 OTHER: 000

magnesium cast iron 18

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L 5143-66 EWT(d)/EWT(l)/EWA(h)
ACCESSION NR: AP5026910

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621.375.933.029.65

34
B

AUTHOR: Berlin, A. S.; Vizel', A. A.; Vystavkin, A. N.; Popov, Ye. I.; Khotuntsev, Yu. L.; Shtykov, V. D.

TITLE: Parametric amplification in the 8-mm band

SOURCE: Radiotekhnika i elektronika, v. 10, no. 10, 1965, 1907-1909

TOPIC TAGS: parametric amplification, millimeter wave

ABSTRACT: In recently published articles (B. C. DeLoach, Proc. IEEE, 1963, 51, 8, 1153 and others) on millimeter-band semiconductor amplifiers, no characteristics have been reported. The present article describes the design and characteristics of and indicates an application for an 8-mm-band parametric amplifier. Coaxial-design epitaxial germanium diodes with 0.04—0.08-pf capacitance and 3—5-v reverse voltage were used in most experiments; critical frequency at a bias of -3 v was 280—430 Gc. The diodes operated as amplifiers at a low pumping power and an operating-point bias of 0.5—2 v. The diodes were tested within -60 + 85C; up to +60C, the leakage current at -1.5 v was 1 μamp or less. The new diodes were tested in a single-cavity 8-mm parametric amplifier (see Fig. 1 of Enclosure). The signal is applied via a tapered waveguide matching unit 1. Behind the diode 4, a short-circuiting section 2 is arranged whose length equals an odd number of

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quarter-waves. The amplifier is tuned by a short-circuiting line 3 that has a characteristic resistance of 100 ohm. Transformer 5 serves for adjusting the coupling. With a gain of 20 db, the passband was 78 Mc and the noise temperature, 600 ± 150K. The parametric amplifier was used in a modulation-type radiometer whose fluctuation sensitivity was measured. Orig. art. has: 3 figures and 2 formulas.

ASSOCIATION: none [03]

SUBMITTED: 23Jan65 ENCL: 01 SUB CODE: EC.

NO REF SOV: 002 OTHER: 003 ATD PRESS: 4134

Card 2/2

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

VOROB'YEV, P.A.; SHTYKOVA, Ye.I.; KOVNEREV, I.P.; VASIL'YEV, N.A., retsenzent; ZAVARSKIY, A.I., red.

[Breeding Romanov sheep] Razvedenie romanovskikh ovets. Moskva, Kolos, 1965. 191 p. (MIRA 18:12)

1. Glavnoye upravleniye zhivotnovodstva Ministerstva sel'skogo khozyaystva SSSR (for Vasil'yev).

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SHTIL' V.A.

Kuda Poyekhat' Bol'Nomu Tuberkulezom Dlya Sanatarno-Kurortnogo Lecheniya (Where The Tuberculosis Patient can go for Sanatorium and Spa Treatment, by) L. D. Ayrapetov, N. G. Mareyeva I V. A. Shtil'. Pod Red. A. F. Serenko. Moskva, Medgiz, 1954.
95 P. Illus.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHEYL', Vera Aleksandrovna; RAULIN, V.A., redaktor; BEL'CHIKOVA, Yu.S., tekhnicheskiy redaktor

[Sanatoriums of Moscow Province] Zdravnitsy Moskovskoy oblast. Moskva, Gos. izd-vo med. lit-ry, 1956. 80 p. (MLRA 9:7)
(MOSCOW PROVINCE--SANATORIUMS)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

BOROSHENKO, R. A.; [illegible]KIY, I.A.; SHTYLENKO, [illegible]

Chromatographic method for determining small amounts of acetonitrile in acrylonitrile. Plast.massy no.7:49-51 '64. (MIRA 17:10)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYL'KO, A.

For the Soviet man. Sov. profsoiuzy 20 no.3:47-48 F '64.
(MIRA 17:3)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

L 38458-66

ACC NR: AP6023871 SOURCE CODE: UR/0109/66/011/007/1252/1256

AUTHOR: Aganbekyan, K. A.; Vystavkin, A. N.; Listvin, V. N.; Shtykov, V. D. 43 B

ORG: none

TITLE: Receiver with an n-InSb detector for studying absorption spectra in the submillimeter-wave band

SOURCE: Radiotekhnika i elektronika, v. 11, no. 7, 1966, 1252-1256

TOPIC TAGS: absorption spectrum, submillimeter wave, indium compound

ABSTRACT: As the sensitivity of a receiver operating at room temperature practically cannot be better than 10^{-10}—5 x 10^{-11} w, which corresponds to a theoretical limit of 5 x 10^{-12} w (E.H. Putley, Infr. Physics, 1964, 4, 1, 1), n-InSb receivers operating at very low temperatures may open new possibilities (G. H. Harding et al., Proc. phys. Soc., 1961, 77, 5, 1167). The electron-gas heating in the n-InSb at 4.2K has been used for detecting the radiation at 300—2000-μ wavelengths (B. V. Rollin, Proc. Phys. Soc., 1961, 77, 5, 1102; M. A. Kinch et al., Brit. J. Appl. Phys., 1963, 14, 10, 672). In using such a receiver for studying atmospheric absorption, a modulation circuit with a synchronous detector and a pre-detector stage with a tuned-secondary transformer has been used by B. H. Martin et al. (Cryogenics, 1961, 1, 3, 159). The present article reports a "similar circuit" with a modulation

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frequency of 800 cps; its measured sensitivity was about 10^{-9} v. A PRK-4 mercury quartz lamp was used as a source. An averaged sensitivity at the receiver input was 10^{-11} w, with an LC-filter time constant of 1 sec (the minimum detected power was 2×10^{-12} w). "The authors wish to thank V. V. Migulin and A. V. Sokolov for their attention to the work, B. Z. Katsenelenbaum for his useful advice, and V. M. Afinogenov and V. I. Suchilkin for their help in carrying out the measurements." Orig. art. has: 6 figures. [03]

SUB CODE: 09 / SUBM DATE: 18Mar65 / ORIG REF: 004 / OTH REF: 006 / ATD PRESS: 5047

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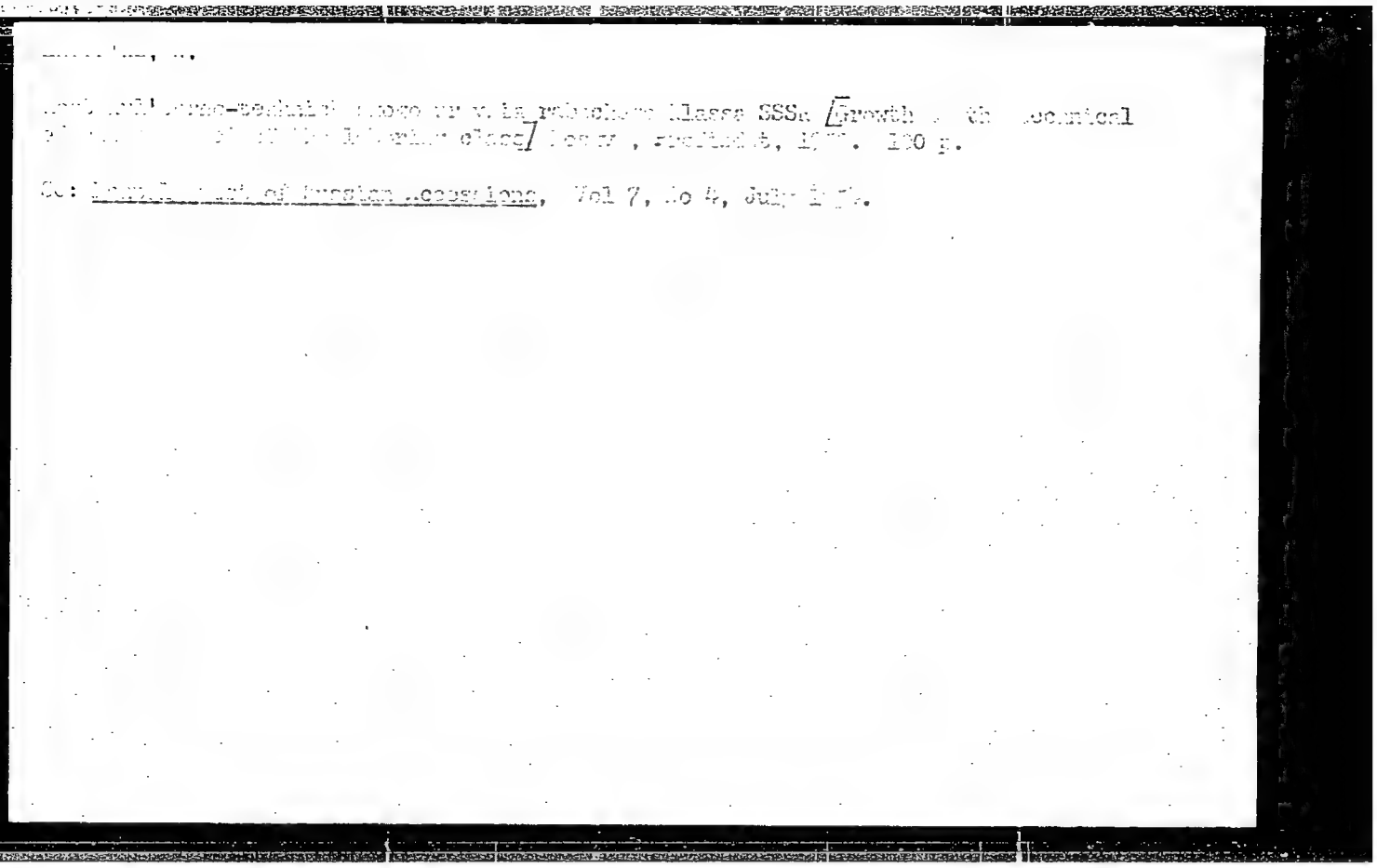

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SHTYL'KO, A.

Pod'yem kul'turno-tekhnicheskogo urovnya trudyashchikhsya SSSR (Raising the cultural and technical level of workers of the U.S.S.R.) Moskva, Goskul'tprosvetizdat, 1953. 94 p.

SO: N/5
114.43
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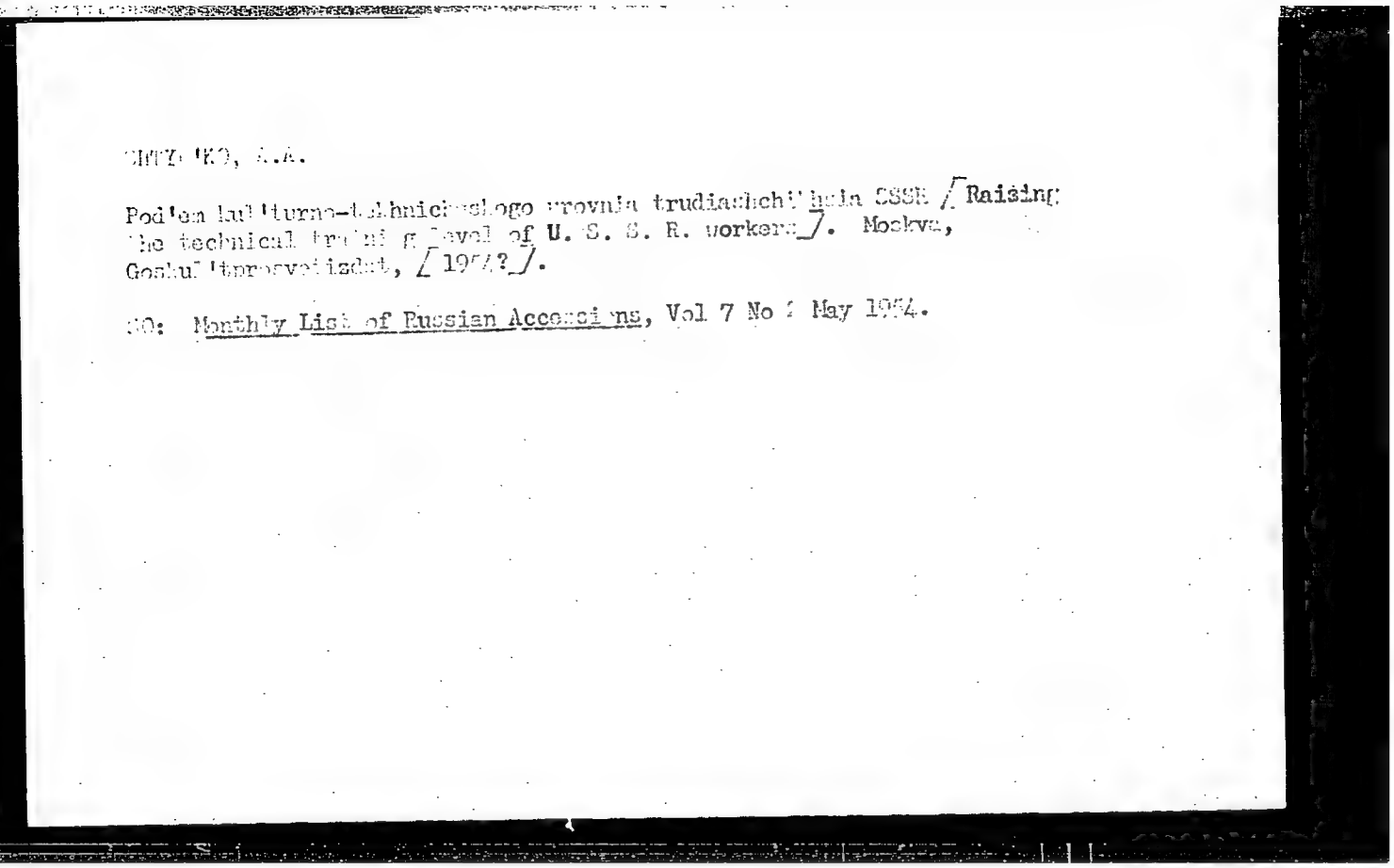

GRITSKO, A.A.

Podiem kul'turno-tekhnicheskogo urovnia trudiashchikhsia SSSR / Raising the technical [illegible] level of U. S. S. R. workers /. Moskva, Goskul'tprosvetizdat, / 1954? /.

SO: Monthly List of Russian Accessions, Vol 7 No 2 May 1954.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

SHTYL'KO, Anatoliy Aleksandrovich

Industrializatsiya SSSR v period pervoy pyatiletki. Moskva, Gospolitizdat, 1956.

99 p. 20 cm.

Bibliographical footnotes

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SHTYLIKO, V. ..

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NASH GOROD; SBORNIK (OUR CITY) MOSKVA, IZD-VO MKKH RSFSR, 1956. 212 p. ILLUS.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001550110011-6

AUTHOR: Shtyl'ko, A.

25-9-33/40

TITLE: A Book About Our Native Country (Kniga o nashey rodine)

PERIODICAL: Nauka i Zhizn', 1957, # 9, p 61 (USSR)

ABSTRACT: The article deals with the standard work on contemporary Russia, "Sovetskiy Soyuz" ("Soviet Union") published by the State Publishing House on the occasion of the 40th anniversary of the October Revolution. The book is composed of a series of articles contributed by Professors A.I. Denisov, F.P. Koshelev, Ye.L. Manevich, M.P. Kim and several candidates of historical sciences. It gives an account of the achievements of science in developing industry, agriculture and economy of the USSR. It tells about the constitution of the Soviet Union, the rights of the Soviet citizen and the social structure of the state. Much space is devoted to tell the reader about the progress in all branches of the industry under Communist leadership. Another section deals with "Living Conditions of the People" where details are given on the improved living conditions of the workers and on the efforts the government is making to raise the social and cultural level of the citizens. The book is well illustrated and worth reading.

AVAILABLE: Library of Congress

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SHTYL'KO, A.

KARLOV, A.; SHTYL'KO, A.

School of administration of social production. Sov. profsoiuzy 6 no.3:7-12 Mr '58. (MIRA 11:3)
(Trade unions) (Efficiency, Industrial)

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